Arithmeticall Nauigation:

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OR,
An Order thereof:

Compiled and published for the advancement of NAVIGATION:

For the benefit of English Mariners, or Sea-faring menthat delight therein.

By Thomas Addison, Practicioner in the Art of Nauigation.



Printed for Nathaniel Gosse at Radcliffe, and are there to be sold. 1625.

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THE RIGHT WORSHIPFVLL.

Sir Morris Abbot, Knight, Gouernour: the Worshipful, Christopher Cletherow,
Deputy, the worthy Treasurers and
Committies of the Honourable Company of Merchants of London,
trading to the East-Indies.

Right Worshipfull,



Eeing it hath pleased the Gouernour of all things, to make you Gouernours and Directors of the famous East-Indian Nauigations (wherein by the blessing of God) ropon your provident

prescriptions (seconded by your servants endeauours)

The Epiftle Dedicatory.

uours) the vast Ocean is become a knowne path to the remotest parts of the world, ronknowne Regions have beene, and are daily discouered, an ample trade acquired, and successfully pursued (ontill by the conetouines, ambition, and intolerable insolonce of the bloud-thirsty Netherlanders, East-India Company got disturbance) I have therefore made choise of your Worships (as the most proper obiect my thankfulnesse aimes at) to recommend thefe first Fruits of my poore endeuours, to your fauourable acceptance and patronage, being the proceed of that Talent God hath given me, and which hath by private trade beene improved in your service, wherein I am now ingaged the second time.

The Worke dimes at the advancement of Nauigation, by a more exact Method or Order, then formerly hath beene published to the world, whose charitable construction of my paines will bee my

Sufficient recompence.

In the first place then, those that will be Pra-Elicioners in the Art of Nauigation, ought to bee acquainted with the Sunne and Moones motion, and the Rules to them belonging, for the better finding the time of the Tide in any place. Secondly, he ought to be acquainted with the setting of the Tides The Epithe Dedicatory!

Tides or Streames, with the Depths and Landmarkes, for the shunning of Rocks and Sands, in his going out, or comming into Roade, Harbour, or River. Also to be certaine of the Latitude and Variation of the place he departeth from, or would arrive at. Fourthly, be ought to know the way of a Ship. In the fifth place, how to promact a traverse. In the fixt, the resolution of plaine Chart 6 Navigation. Seventhly, he must observe, and know 7 the disagreements betweene the Meridians on a plaine Chart, and the Meridians on a Globe. Eighthly, he ought to know the rose of Mercators 8 Chart; for Planisphere.) Lastly, be ought to know 9 and runderstand such Astronomicall questions as shall be resegul.

Therefore, for young beginners, they shall have (in this short Treatise) an order of Navigation. First, of Rules that are necessary to know the shifting of the Tides. Secondly, for finding of Latitudes. Thirdly, for the making and vie of a Cylender halfe minute glasse, for the sinding of the way of a Ship. Fourthly, to know the vie of two protracting Tables; the one for Points, Halfes, and Quarters, and the other for every Degree; and of Athird Table, of 1000. Numbers, with their Logarithmes, drawne from the Table of that Honou-

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rable

The Epifile Dedicatory.

rable, the Lord of Merchiston; and of a fourth, shewing the equal parts of every minute of the Meridian, from the Equator, to the Paralell of 60.

Degrees.

I thought it not fitting to proceed any further, though my intent was, to have shewed an order of great Circle Nauigation, but wanting time (my imployments in your Worships affaires calling mee away) I referre it to those that have better leisure

and ability to performe it.

All these Tables require the aide and assistance of the renowned Lord of Merchiston his Table, for the better performance of plaine Mercator, or great Circle Nauigation; but all Astronomicall questions by the last. Therefore, if this order of Nauigation be beneficiall to any, let him praise God, and give him the glory, and let him she wforth His evident workes with honour. Let all men conceale the secrets of a King, but not the workes of the Lord, for we are all created to glorifie God; otherwise we shall prove but comprositable servants, to hide our Masters Talent.

Therefore, to conclude, I most humbly desire your Worships to pardon my presumption, and to accept in good part the labours of a seruant, who bath, and doth, and ever will pray to the eternall

and

The Epistle Dedicatory.

and everliving God, to blesse and prosper your worthy designes in this famous Trade, to the glory of God, the bonour and benefit of our Nation, and the inriching of your selves and servants. In assured considence whereof, I humbly take my leave, and rest

Your Worflips denoted Semant

THOMAS ADDISON.

The Boilde Dedicatory.

and encriming God, to blesse and prosper your worthy designes in this famous Trade; to the glory of
God, toe bonour and benefit of our Nation, and
their riching of your selves and cruants. In assured considence whereof, I humbly take my leave,
and rese.

Page 1. Line 33. for Sunnet, reade Moones. pag. 4. l. 1. for ruleth, r. cutteth. pag. 7. l. 25. for 83. v. 831. pag. 11. line 8. for rules, r. miles. pag. 11. l. 11. for East, r. West. Pag. 16. l. 8. for difference, r. differentia. pag. 17. l. 2. for 17. 19. r. the like. pag. 18. for the unknowne, r. the side vn-knowne. therowout the Booke, for Loge Rome, pene, cosigne, r. Log. Rumbe sine, Cosine.

Entle Reader beare with the faults that have crept

To finde the Golden Number.

Anineteene, & the remainder if any be, shall be the Golden Number, but if nought remaine, then nineteene shall bee the Golden Number: otherwise thus; from the yeare of our Lord deduct 1500, and then divide the rest by 20, and then the quotient and the remainder shall be the Golden Number.

To finde the Epact.

Augment the Golden Number by 11, and divide by 30' the remainder is the Epact; but if nought remaine, then 30 is the Epact, otherwise thus; divide the Golden Number by 3, and if 0 remaine, then is the Golden Number and Epact equal; but if 1 remaine, it is more then the Golden Number by 10; and if 2 remaine, it is more by 20.

To finde the Coniunction.

To the Epact adde the monethes from the beginning of March last past, till the end of that moneth, wherein you would know the same; then the amount from 30 if lesse, or from sixtie if more then thirty, leaueth the day of the Conjunction.

To finde the Full and Quarters.

If the day of the Coniunction bee before the 15 day of the moneth, adde 15 vnto the day of Coniunction, and you shall have the day of the Full: If the Coniunction happen after the 15 day, take away 15 from the number of the day of the Coniunction, and you shall have the full Moone; the first Quarter is 7 dayes after Coniunction, and the last 7 after the Full.

To finde the Moones Age,

Adde to the day of the Moneth the Epact, and also the moneths from the beginning of March to the present moneth, if the product be lesse then thirty it is the Moones age, if it exceed, the surplusage is the Moones age.

To finde the time of the Sunnes South being.

Multiply the Moons age by 4, & divide by 5 the quotient is nources, and for every one that remaineth allow 12 minutes, for

B

may you finde the time that the Moones comming to the Meridian: but note, that betweene the Change and Full shee commeth to the Meridian afternoone, but being past the Full, take 15 from it and the rest multiply by 4 and divide by 5, and allow for every remainder as before, so shall you have the time that the Moone commeth to the Meridian after Midnight.

To finde the time of the Tide in any place.

First you are to consider, at what time the Tyde is on the day of the Conjunction then have you no more to doe, but to adde to it the time of the moones comming to the Meridian after the Sunne, and you shall have your demand, the time of the Tyde.

2 Certaine Rules for finding the Latitude.

Hen the Sunnes declination is toward the elevated Pole, and the Zenith betweene, you shall adde the declination to the Sunnes distance from the Zenith; so shall you have the Latitude of the place.

When the Sunnes declination is toward the eleuated Pole, and the Zenith betweene the Equator and the Sunne, you shall take the Sunnes, distance from the Zenith, out of

the declination, so resteth the Latitude.

3 When the Sunnes declination is from the elevated Pole, and the Zenith betweene, you shall take the Sunnes declination out of the Sunnes distance from the Zenith, so shall remaine the Latitude of the place.

4 And when the Sunnes declination, and the Snanes diftance from the Zenith shall be equall, with North or South declination; you have no Latitude at all, for you are then

vnder the Equinoctiall.

7 Then the Sunne hath declination towards the Elevated Pole, and is to be seene upon the Meridian of North and South not setting, then the declination to the lest distance from the Zenith, is the Latitude,

But if you take the Complement of declination out of the greatest distance of the Sun from the Zenith, you shall have

the Complement of Latitude.

By the furthest and neerest distance of the Sun or Starre from the Zenith, for Latitude and Declination.

6 If the Zenith distances be both one way, as North or South, then let the lest be taken out of the most, the halfe of the rest shall be the Complement of Declination, and it and

the least the Complement of Latitude.

7 But if the one Zenith distance bee South and the other North, for one and the same thing, as Sunne or Starre, then the least from the most, leaveth the double of the Complement Laritude, the demand.

3 How to finde the way of a Ship by a Cilinder halfe minute Glasse.

Li ori of an inch ouer, be cased in wood or some other thing, having an open space of the part of an Inch, and short of each end one Inch; let the said distance bee divided into 120 parts, and the one end of this Glasse after the sand is in is to be stopt, and the other to have a Plate as other running Glasses have; and in the same a hole that may vent the sand, from the sast division to the last of 120, in the time of halfe a minute of time

2 Let the lower end of this Glasse have a necke of leather of three Inches long, and the one end sastened to the end of the Glasse, and the other to a Boxe of Ivory, or some other thing, that shall be made a purpose for the receiving of the sand that runneth forth of the said glasse, then set a distance on the ships side, of the 120. part of a mile, then if you shall sinde, that any thing that is hove over into the water, that the ship shall make it to passe from the one marke to the other, in the time that the sand sinketh 20 parts of 120, which is the 6. part of 120; therfore I say that the way of the ship is 6. mile in an hower; but you must stop the sand with your singer, till such time as the thing commeth against the first marke, and then let the sand runne till the thing be against the second marke, and then you

are

are to stop the sand, and to note what division it ruleth, for the whole division, devided by the part where the sand is stopt at,

shall give the miles that the ship goeth in an hower.

Or thus; the way of the Ship knowne at one time, how to finde it at any other time, by an vnknown distance, the Cylinder Glasse being also an vnknowne time, at the instant of time when you or any other shall make the ship for to goe 6 miles. more or lesse in an hower, by a loge and line at the very same instant, take two places on the Shippes side, not regarding the distance, and note by the Cylinder-glasse the parts cut by the Sand, for any thing that shall passe from the one marke to the other; then shall you multiply the said parts cut by the sand, by the miles that she went by the Loge, as suppose 20; the parts cut by 6 miles she goeth is 120; this number must alwayes bee divided by the parts that shall be cut at any time after, as suppose it were 40, that should divide 120, the quotient will bee 3 the miles in an hower, this rule is generall for all times, and the parts that you will have your Glasse divided into, may bee what you please, and you need not care whether your Glasse bee halfe a minute of time, for it maketh no matter for the true time, let this be sufficient for the vse of this Glaffe. it were a good busines for to make a Cylinder Glasse of two or three howers of time, the which would bee necessary in finding the latitude by morning or evening observations of the Sunne.

A protracting Table, for whole, halfe, and Quarter points of the Compasse, for Miles, from 1 to 10, and so to 20. 30. 40. 50. and if need require to 100.

or more at pleasure.

This Table is divided into 4 parts, representing 4 points, and each of them into other 4 parts for quarter poynts, and each poynt hath 5 Colomes; the first representeth miles sailed, the second, if any be, is also Miles, the third is parts of a mile, each being divided into a hundred parts, so that each part is a pace. The fourth Colome is also miles, and the 5 parts

of a mile, you may suppose the first Collome to bee Leagues,

and so the rest parts according.

2 In the vie of this Table, vnderstand; that the first part may represent the first poynt from a Meridian or parallel, that is from North or South, East or West, and the rest in order according, till you come to the halfe quarter poynt; as for example fuppose I sayle vpon the third poynt from the Meridian which is either a N. E. by N. or S. E. by S. or N. W. by N. or S. W. by S. these foure poynts are each of them three poynts from the Meridian; now fay I fayle on any one of these 10 Miles, I demand to know the separation from the Meridian, and the alteration of Latitude, looke in the lower part of the third Colome against 10, and you shall finde 5 miles 56 parts, and 8 miles 31 parts, the first is the feperation, and the fecond the alteration; but if it were the third poynt from the paralell of E. or W. that is a N. E. by E. S. E. by E. or a S. W. by W. ora N. W. by W. then should the first bee the alteration, and the second the separation.

Therefore take this for a generall Rule, if the Course be neerer the Meridian then the paralell, then the lesser is the separation, and the bigger the alteration; but if the Course be neerer to the paralell then to the Meridian, the contrary, the lesser must be the alteration, and the greater the separation, if on any of the last mentioned Courses, you faile 15 miles, you must adde the number against 5 to the number against 10, so shall you have 8.34, and 12.47. if 20.30.40: or 50. you must multiply the number against 10 by 2.3.4. or 5. so commeth the demand, and if any Unites commeth betweene, the tenths worke as before for them, if 100. were sailed, adde 0. & cut of the two last so have you the demand 55.60.83.10.

Againe, in the vse of this Table, in casting vp a transfe, you must consider that sometimes, it happeneth, that the Courses increaseth, & at other times decreaseth the Latitude, & at some time it may separate East, and at other times West, stom the Meridian of the place of departure; therefore observe this order of worke following.

B.3.

S. 1. E. 1000 98 09 95	S. S. W. 08 03 06 07 39
S. by E. 2003 90 1962	S.W.b.S. 09 05 00 07 08
S. E. b. S. 05 02 78 04 16	S. W. 10 07 07 07 07 07
Easte. 40 00 00 00	South. 4 00 00 40 00
47 66 33 73	15 13 61 94
E. N. E. 1009 24 383	W.b. N. 05 04 90 00 97
N. E. 040283 283	W.N.W. 10 09 24 03 83
N.N E. 3011 492772	N.b.W. 09 01 76 08 83
North. 1500 00 1500	West. 10 10 00,00000 35 90 13 63

First I draw two Lines crossing each other at right Angles, at the ends thereof, I fet these foure Letters, E. S. W. N. the which representeth East, South, West, North: then as the trauis istowards any part; so I set them downe in the quarter where they were made, and then name the Courfes with Letters, next to it, I fet downe the miles failed, after that the miles and parts of separation, and the miles and parts of alteration: the which done, I summe each vp, and then adde all the Easterly seperations together, and also the West together; and then feeke for the difference, the which is 20 miles 19 p. the true separation East: then in the next worke I adde all the South alterations together, and also all the Northerne alterations; and then as before, I feeke for the difference and find itto be 22 miles 66 p. Southerly alteration from the place of departure, as in the following worke it will appeare: now is the trauis brought to two sides of a right Angle; the one is the separation, East 20 miles 19 p. the other is the alteration South 32 miles 66 parts; by which may the course bee found by the 11, and by the 5, the miles of way fayled, the thing demanded.

147-66 Melenis Belim ad	33 773	l nignteir
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\frac{61-94}{95-67}$	49-38
51-03 51-03	63-01	63-01
20-19. Seperat East.	32-66 A	ter. South

or 10 part of a mile, for then it followeth that you may cut

off 4.5 or 6 figures towards the right hand.

of a step bond to be

7 Againe, in the second protracting table, that shall serve for every degree of Horizon, hath the like division of a mile, and you may vie it altogether as the former; but this you must viderstand that as the one is for points, halfes and quarters; so the second, is onely for degrees from North or South East or West towards the halfe quadrant, and so in vie, it shall serve for the whole circumference of 3 60 degrees.

8 You may by the first Table finde how many miles shall alter a degree of latitude, on any whole halfe or quarter point of the Compasse, after this manner, divide 60000, by the number that answereth to the difference of latitude as suppose it were the third poynt from the Meridian, which number is 831, by which I divide 60000; so commeth 72 miles 158.

But if it were the third point from the paralell, then you fhould divide 60000 by 556, fo commeth 107 miles 108 parts.

9 But if it be demanded, to know how many miles you depart from the Meridian, in altring one degree, failing vpon the third roome from the Meridian, you must augment 556 by 60, and then divide by 83, so commeth 42 miles 120 parts: but if it were the third poynt from the paralell, then you must augment 31 by 60, and then divide by 556, so commeth 89 miles, 376, parts.

10 Now if I faile vpon the third roome from the Meridian 72 miles 158 and would know the latitude altered, augment

the the last number by 831, and the cut of three figures to-

wards the right hand, so resteth 60 miles the demand.

Againe, if on the third roome from the Meridian, I sayle as before, 73 miles, and would know the departure from the Meridian, augment this number by 556, so commeth 40 miles 1000 the departure.

and the distance sayled 108 mile, and the demand to know the Latitude altered, that augment by 556. Shall be 60. miles

for the Latitude altered.

But if 108. miles bee sailed on the third course from the Paralell, and you would know the separation from the Meridian, you must augment 831. by 108. so commeth 89. miles 748 parts, the demand.

But if the way sayled bee 108. miles, to alter the Latitude 60. miles, what is the Course, divide 6000. by 108. so commeth 556. the third poynt from the Paralell the thing de-

manded.

Againe if the way sayled were 73. miles, to alter 60. miles, what should bee the Course, divide 60000. by 73. so commeth 821. which is neere the third roome from the Meridian.

Meridian 80. miles, what is the Course, let 89. bee 89000. the which districted by 108, the quotient 824 the which is new

the three roomes from the paralell.

If the miles failed were 73. to separate from the Meridian 40. then divide 40000 by 73. so commeth 547. the which shall bee neere the third roome from Meridian, the order of all the former demands followeth.

	168	}		508
60000	72-	•	60000	107-
831 .			556	

the second protracting toble, if not for posits, halfes to second the second to be seen to the second to the secon 33360 40- 49860 Borke as id the first cable, as year 188 more been obles me 831 556 9 199 9 50734 I m 1 m 7 m Miles 59 | 832 Parts. Miles 40 | 032 parts. non 10541;013 981937 2 834 0 2 PE 5 2 00 5 1 556 108 ROI miles. 60 | 048 pares miles 89 | 748 parts. 60000 (555 third 60000 (822 third 73 from the Merid 73 from the Meridian. 40000 | 547 neere the 73 thirdfrom Meridian. 89000 | 834 third 108 from Paralell . 61-29 8. Se. 25-20. E. Lere You lety draw two Licat to the contractor towards the

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The second protracting table, if not for points, halfes and quarters, but for degrees from 1 to 45. the which shall serve for the whole Circumference of 360. degrees, observing the like order of worke as in the first table, as you may beere observe.

	141	n m	p m	101	d m m p m p
fro S to E.	IOI	001	7319	184	fro S to W 05 10 00 87 09 96
fro Sto E	25	004	22 9	06	fro S to W 30 20 10 00 17 32
fro E to S.	350	7.05	374	OI	fre S to W 40 30 19 27 22 98
fro E to S				24	fro W to S 40 30 22 98 19 27
		14	56 2	HI5	53 12 69 53
	، الم	22 285	pm	IBI:	- d m p m p
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ro E to N					fro W to N 10 05 04 92 00 86
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	32-84		
N-61-29 S-12-39 A.	61-29 A.	Se. 35-	

fro N to W 3 9 20 3 149 26 38

Holared oilt3065 4084

fro N to E 44 10 06 9407 19

136 94 38 45

First as heere you see, draw two Lines, crossing each other at right Angles, and set to the ends of each set Letters to represent, E. S. W. N, then in each quarter towards the part

part that your trauerfe tendeth, fet it there, naming it with Letters thus; from the S. toward the E. To. degrees, To. miles failed thereon, or from the S. toward the W. or from the W. towards the N. or N. towards he W. and fo in the reft, with this pronife, that if the Course become erer the St then the E. then fav from the S. toward the E. then in the fecond and third fet downe first the miles and parts of Separation, and next after the rules and parts of alteration, the which done, add each by it selfe, and then let the Easterly separation be added aftogether, and allothe Wellerly and then feeke for the difference, and you shall finde it to bee, seperation East 35 miles 20 parts: fecondly, the Southerne alteration exceedeth the Northerne, by 32 miles 39 parts: so now have you the two containing fides of a right angled triangle, by which may the Courfe bee found, and also the miles fay led thereon, by the II. and c. proposfollowing. Thus have I shewed how any Trauis may be protracted and made upon whole, halfe, and quarter points, or ypon any degree of the Horizon, to the 10. or 100. or 1000. part of a mile, this Table may ferue for other vies on the Land.

5 For the Miles that altereth a Degree of Latitude,

As the Coline of the Azimuth is to Radius, so shall the miles in a degree of the Meridian, be to the miles sailed on that Azimuth, out of the Logarithmi, of the miles in a degree of Latitude, take the Antilogrithmi, of the Azimuth and the rest, shall bee the Logarithmi, of the miles to alter a degree.

60-28150782 50-4419408 smmil adi ot llaggi 23731374

Three things to be confidered, the first, whether the Antilogrithmi of the Azimuth, bee lesser, equall or more, then the Logarithmi of the miles, in a degree of Latitude, according C 2 therethereunto, the miles sailed, shall bee lesse equall or more then 1000. as by the following worke.

80-17507234	60-28150782- 868428150782	d. 60,0000 87-52 3360-29500706 7 6640-48713:196
344:010643548	1000-0000000	146; 192:3090.

Note that when the antilo of the Azimuth, is greater then the Logari of the miles, in a degree of Latitude, you must take the Cosine of the Azimuth, out of the singe of the difference, of one degree of Latitude, and out of the Logari of the rest, take the Antilo of the Azimuth; so resteth the Logari of the miles sayled more then a 1000, the thing sought for.

6. Sailing on an Azimuth of 50. Degrees, to alter the Latitude 60. Miles, what departure from the Meridian.

As the Cosine of the Azimuth is to the sine of the Azimuth, fo shall the miles of Latitude bee to the miles of departure from the Meridian: Or let the Logari of the Azimuth be added to the Logari of the difference of Latitude, and out of that take the Antilo of the Azimuth, and the rest, shall be the Logari of Miles of departure from the Meridian.

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But if the Antilo of the Azimuth, be equal to the summe of the Logari of difference of Latitude and Azimuth, then the departure from the Meridian will be 1000, but if it be greater, then to the Logari of the difference between the singe of Latitude,

tude, and Cofine of Azimuth, adde the Logari of Azimuth, and from that summe take the Antilo of Azimuth, the rest is the Logari of miles, more than 1000, for the departure from the Meridian.

Degr. 60 0000 87-52 3360-29500706 7 6640-48713796 87 Degr.-13714

> 48727510 19226804

7. Miles failed 93. 1 on an Azimuth; of 50 Degrees; what miles of Latitude altered.

A S Radius to the Cosine of the Azimuth, so shall the miles a sayled, be to the miles of Latitude that is altered.

To the Logari, of the miles failed, adde the Antilo of the Azimuth, so comments the Logari of the miles of Latitude, that is altered.

93 : 23731374 10 imeo.l saidte i 50 4419408 -max olanamina saidte

60-28150782.

But if you faile 1000. miles, on any Azimuth, and would know the difference of Latitude, because to a 1000. there is Logari o. and seeing it is in the first and second place in the rule of proportion: therefore I take the Cosine of the Azimuth, which is 642, the which shall beethe miles of Latitude, that is altered.

But if you faile 1146; miles, on the Azimuth of 87. degrees, to the Logari of the more then a 1000, adde the Antilo of the Azimuth, and to the Logari that commeth, seeke a signe, to the which ad the Cosine of the Azimuth, the summe of both, cutting off 4. sigures towards the right hand, shall been the miles of Latitude that is altred, the demand.

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2007 10 12 146 19213090 13 A Castillo Changlist

87 52 3360 000 angold

8. The Miles sailed 93. on an Azimuth of 50. des grees what is the separation from Meridian.

A Sthe Radius to the fine of the Azimuth, fo shall the way sailed, be to the miles of departure from the Meridian.

To the Logari of the miles failed adde the Logari of the Azimuth, to commett the Logari of Miles of departure, from the Meridian.

Liay led, be to the miles of Curtrid; that is alrered.
To the Logari of the mice 200 feet and the color

But if the miles sailed be 1500, on any Azimuth, then the fine of the Azimuth shall answer to the demond, the which is 766.

But say the miles sayled were 1146; then to the Logari of the more, then a 1 000. adde the Logari of the Azimuth, so commeth the Logari of miles of separation, from Meridian, more then 1000.

146; 19213090 massar of the sale of the sa

9 The Miles failed 93.3 and Latitude altered 60.

A S the miles sailed, is to the miles of Latitude altred, so shall the R adjus peto the Coline of the Azimutho salim Out

Logari of the miles sailed, the rest is the Antilo of the Azimuth.

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50-4419408.

But if the miles sayled bee 1000. and Latitude altered 60. let it be 600000. which shall be the Cosine of the Azi-

muth, 86-34.

But if the miles sailed, be 146. I more then 1000. to alter 60, miles of Latitude, among the natural sines, seeke the neerest numbers, and let the Logari of miles sayled bee taken out of the Logari of miles of Latitude altered, or thus halfe each number, and take the Logari of greatest, from the least, so by both shall be found the Antile of the Azimuth.

60|0000—51162680 30—35068620 1146|3000—21661974 573-2 5567914 87 Deg.29500706 87—29500706.

10. Miles sailed 93. and Miles of Separation from Meridian 71. what Azimuth:

A S the miles failed is to the miles of separation, so shall the Radius be so the fine of the Azimuth.

Out of the Logari of the miles of separation, take the Logari of the miles sailed so resteth the Logari of the Azimuth.

2 2. The Separation of The 1886 188 7 1. ! miles , and

But if the miles sailed be room and 766. miles of separation, then shall that 766, be the sine of the Azimuth, that is demanded.

But the miles failed being ¥ 140: and separation 1130 you may cut off the last place, towards the right hand, and then

Logari of the Azimuth.

113-21803672 114-21715563 82-24-88110.

1 1. Miles of Latitude altered 60. and miles of separation from Meridian 71. what Azimuth:

A s the miles of Latitude altered, is to the miles of Separation, so shall the Radius bee to the tangent of the Azimuth.

Let the Logari of the greatest bee taken out of the Logari of the lesser; so resteth the difference of the Azimuth.

-60-28150782 711-26396523

But if the Latitude altered, were 1:100 miles, and the feaparation 1050. you may cut off the last figure towards the right hands or halfe each number, and then take the Logari of the greater from the lesser; fo resteth the difference of the Azimuth.

105-22537956 110-22072751 550-5978371 43-40-465205 43-40-465205

12. The Separation from Meridian 71. miles, and alteration of Latitude 60. miles, what Azimuth and miles sailed?

Thath beene in vie for to square each side severall, and then to adde the square number together, and to extract the square root, and so have you the miles sailed.

Bue

But heere let the Logari of the greater bee taken out of the Logari of the lesser, and the rest shall be the difference of the Azimuth.

Then Let the Logari of each be taken out of the Logari of the side opposite; so commeth the Logari of miles sailed.

60-28150782 712-26396523 28150782 Dgr. 26396523 4419408 40 De.1754259 50- 2665149

Let these 8 propos fussice for right angled triangles in the vse of plaine Nauigation, there remaineth for oblique right lined triangle: which is vsefull for finding distances in sight, by the helpe of a Magnetical Instrument.

13. Two sides of an Angle given to finde the waknowne Angles.

A sthe Sunne of both the sides is to the difference of the sides, so shall the tangent of halfe the two vnknowne Angles be to the tangent of an arch, the which added to the halfe of the two vnknowne, giveth the greater, and taken from that halfe, leaneth the Lesser,

Or thus: from the Logari of the difference of the sides, take the difference of the halfe of the two vnknowne Angles, and from that the Logari of the summe of the sides; so there will rest the difference of an Angle, the which to the halfe of the two vnknowne shall be the greater, but if you take it from the halfe of the two vnknown, it leueth the lesser.

144	79 Degr.	76-25770224
213	50—30. 23—30.	23838458
76	74—00 27—00	23-30-8326770.

By the sides 144 and 68 with the Angle betweene of 79. Degrees, by the order observed, the one Angle is found to bee 74. Degrees, and the other 27 degrees, and for the side opposite to any Angle.

1 4. Two Angles, & a side opposite to one is for the side opposite to the other.

You must consider, that as the signe of an Angle, is to the side opposite to it; so shall the signe of an Angle, knowne, be to a side opposite vnknowne.

Therefore it followeth, that as the Logari, of angle is to the side opposite to it; so shall the Logari of an angle knowne, be to the Logari of the vnknowne.

27 De. 7896787 144—19379420 27276207 74 de. - 395086.

68-26881121

15. Two sides of an vnknowne Angle, being given with an Angle opposite to one, to finde the Angle opposite to the other.

By the former worke, as the side opposite to an Angle, is to the signe of the same Angle; so shall the side opposite to an

wiknowne Angle, be to the Angle viknowne.

Therefore to the Logari of the fide opposite to the vn-knowne Angle, adde the Logari of the Angle knowne, and from that summe take the Logari of the fide opposite to the Angle knowne; so resteth the Logari of the Angle vn-knowne.

I all Tolker had bee 147-19379420 -7896787 27276207 68-26881121 74 deg.395086.

chaine Loga.

16. Two sides of an unknowne Angle, with the Ans gles opposite to each, to finde the unknowne side.

Irst you are to consider, that the three Angles of any right I lined triangle, is equall to two right Angles, therefore the two being added, & taken from 180. leaueth the third Angle, then may the side vnknown be found by the former work: For by the 14. Proposition as the signe of any one Angle, is to the fide opposite to it, so shall the signe of an Angle be to the side opposite to it.

First finde out the quantity of the vnknowne Angle, and then as the Logari of the Angle, to the Logari of the fide opposite to it; so shall the Logari of the Angle last knowne, be to the Logari of the side that is vnknowne.

> 79--185437 144-19379420 19564857 IOI 74-395086

147-19169771.

17. To finde the proportion of the sides, by having the three Angles.

He sides have the like proportion as the fines of their An-I gles, for let the three Angles bee 79-74-27. I say as the fine of one Angle is to the fine of the other, fo shall the fide oppolite Posite to 79. bee 147. and that to 74. shall bee 144. and that

opposite to 37. degr. 68.

To the Logari of 147. adde the Logari of 74. degrees, and from that take the Logari of 79. degrees; so resteth the Logari of 144.

Against to the Logari of 144 adds the Logari of 27. Degrees, and from that summe, take the Logari of 74. degrees;

To resteth the Logari of 68.

74-19169771	144-19379420
19564857	37276207
79-185437	74395086
144-19379420	68-26881121.

1.8. To finde an Angle by knowing the three sides.

As the base or longest side, is to the summe of the two other sides; so shall the difference of the sides, bee to the alterne base, found, the which added to the true base, and the halfe thereof shall be the greater Case, the which from the true base, leaveth the lesser Case, then may the perpendicular.

and also any of the three Angles be found.

rithmi of the summe of the sides, and from that take the Logarithmi of the summe of the sides, and from that take the Logari of the base; so resteth the Logari of the alterne base, then adde it to the true base, and then the halfe thereof shall be the greater case, the which taken from the whole base, leaueth the lesser case, then may the perpendicular, and also any of the three Angles be found.

147		76-25770224
144		41 28 1912
212	. di 10. 100.0 1	47-19169771

3 5112 2 9v 9 7			
Alterne bale		A SATTATAT	- 1000 - 100 to 00 -
MICTIC BUT		9 32112141	147
an law tacher			128
3 10 10 10 10		AND SARE	The state of the s
Colorador and	250	2	
Greater C	ale 12	1 Leffer Cal	e. 181

Now, by the subtendant side and containing side of a right lined triangle, may the length of the perpendicular be found, but at this time I have no great vse of the perpendicular, therfore I say, in this triangle, as the greater or lesser side of the triangle given, is to the greater or lesser case, so shall Radius be to the Cosigne of the acute angle, sought force

Therefore if you take the Logari of the biggest side out of the Logari of the greater Case, there will rest the Antilo of the acute angle, the like worke for the other, for the finding of the other acute angle, and so by both to finde the third Angle, to conclude.

128:20537797	18139769097
144-19379420	6826881121
270-1158377	74-12887976.

Now 27. Degrees and 74. degrees maketh 101. the which from 168. leaueth 79. for the third Angle; so have you your Demand.

These 6. last propos. are of excellent vse for the finding the distance of a Cape, Land, or Iland, by helpe of a Magnetical Instrument necessary for the purpose.

origine of the Latitude is to the Rudius formall the companies of Congression of the Rudius of Congression of the children cashe that the congress of affect of the congress of affect of the congress of affect of

Now.

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Now followeth the Increase and Decrease, or the widning or narrowing of the meridians and Parallels in a Globe.

I. In the Latitude of 50. I demand how many miles of the meridian, or Equator is a Degree of Longuede.

S the Radius to the Cosigne of Latitude, so shall the miles in a degree of the Equator or Meridian, bee to the like miles to answer a degree of Longitude.

To the Logari of miles in a degree of the Meridian, adde the Antilogri of the Latitude, to there shall come forth the Logari of miles of Meridian or Equator, the which shall answer a degree of Longitude.

60—281 50782 50—-4419408 38-1 32570190.

2. What Longitude answereth to 77. miles of the Meri-

As the Cosigne of the Latitude is to the Radius, so shall the miles of the Meridian, bee to the miles of Longitude in that Parallel.

Out of the Logari of the miles of the Meridian, take the Antilogri of the Parallel, so resteth the Logari of miles of Longitude in that Parallel.

axe the Lough Ci co. I

relifications tils?

77-25631361

120-21201953

3. In the Paralell of 40. Degrees what a figne of thirty Degrees.

As the Radius to the Cosigne of the Paralell, so shall the ligne of 30 bee to the signe fought for.

To the Logari of 30. degrees adde the antilogri of the Paralell; fo commeth the Logari to the demand.

30—6931469 40—2665149 383-9596618

4. In the Paralellof 60. what miles of Equator or me-

A S Radius to the Cosigne of the Parallel, so shall 15. the miles of a minute of time, In the Equator bee to the like in the Paralell.

To the Logari of miles in a minute of time vnder the Equator adde the Antilo, of the Paralell; so commeth the Logari of Demand.

knowne Parallel, they are 90. I demand that

Parallel.

S the 200 is to 90. so shall the Radius bee to the Cosine of Parallel, therefore out of the Logari of 90. Leagues take

(24)

Take the Logari of 200. Io shall rem aine the Antilo of the Parall fought for.

90-24079446 200--16094379 63-15:7985067.

6. Vnder the Equator 100. Leagues betweene two meridi-

A \$ 100. isto 58. fo shal Radius be to the Coligne of the La-

Therefore let the Logari of the greater bee taken out of the Logari, of the lesser, so resteth the Antilo of the Latitude.

58-28473143 100-23025928 54-33-5447215.

7. In the Paralell of 50. Degrees 38; miles of the meridian, what Longitude?

A Sthe Cosigne of Paralell is to the Radius, so shall the miles of the Meridian bee to the miles of Longitude in that Paralell.

Therefore, out of the Logari of the miles of the Meridian on the Paralell take the Antilo, of the Paralell, so commeth Logari of the miles of Longitude on the Paralell.

38 1 32 5701 90 50-441 9408

60-28150782

The state of the sold of the Radius bee to the Colone The Colone of the Logari of on Leagues take

8. If 120, miles of a Paralell be equall to 77. of a meri-

A S the miles of the vnknowne Paralell is to the miles of the Meridian, so shall the Radius bee to the Cosigne of the Paralell.

Therefore let the Logari of themiles of Longitude in the voknowne Paralell-be taken out of the Logari of miles of the Meridian, so there resteth the Antilogari of the Paralell.

77-25621361

9. In the Paralell of 40. a signe of 383. what

A Sthe Coine of the Paralell to Radius, so shall the signe Athat is given, be to the signe of the arke demanded.

From the Logari of the signe given, take the Antilogari of the Paralell, so resteth the Logari of the Arke sought.

3838-9596618 01 40-2665149 30-6931499.

10. If 7' miles of the meridian dath auswer to one minute time, I demand in what Paralell?

A Sithe most miles, or 15, is to 7; so shall the Radius be to Athe Cosine of the Paralell the thing demanded.

Therefore, let the Logari, of a minute of the Meridian, so shall rest the Antilo of the paralell.

7-148942365 15-42010896 60-6931469. 11. In Paralell 63.15:, 90. Leagues betweene two meri-

A S the Cofigne of the Paralellis to the Radius, so shall so.

Leagues betweene two Meridians on the Paralellibee to

their distance vnder the Equator.

Therefore, let the Antilo of the Paralell be taken out of the Logari, of the distance between the two Meridians on the Paralell, so the rest shall be the distance under the Equator.

90—24079446 63-15-17985067 200—16094379

12. If under the Equator, 100. Leagues betweene two.

meridians, what in 54. 233.

S the Radius is to the Cosigne of Latitude so shall the distance vinder the Equator be to the distance on the paralel.

Therefore to the Antilo of the Latitude adde the Logan of the distance under the Equator; so commeth the distance on the Parallel.

54-33-5447215 58-28473143

13. In an unknowne parallell where 38 ; miles of Maridian answereth to 60 of latitude what is that parallell.

38 1 32570190 31 60 - 28150782 50 - 4419408

101

(27) ()

Langisude, what of the Meridian.

S Radius to Coligne of the Parallell, so shall the miles of Longitude on the parallel, be so miles of the Meridian.

Therefore let the Antilogrizof the parallel be added to the Logari of the miles of Longitude on the parallell, so commeth Logari of miles of Meridian.

120-21201953 conshib lo 1220 diremmoo 50-4419400 1-602

383. Shelike signe of 30 Degrees in the Equator, and parallell is it?

A sthe figne of the Arke given, is to the figne given of the like, so shall the Radius be to the Coligne of the Parallell value of the pa

Therefore out of the Logari, of the figure of the vnknowne parallell, take the Logari of the knowne for the Equator, and there shall remaine the Antilogari of the vnknowne parallell.

383 — 9596618 500 — 6931469 40 — 2665149

16. If 7 miles of meridian be a minute of time in the parallel of 60, how many is a minute under the Equator?

As the Cosigne of 60 degrees to the Radius, so shall the miles of the Meridian a minute of time in 60 to the miles vnder the Equator. Therefore out of the Logari of the miles of the Meridian, that maketh a minute of time on the parallel, take the Antilo of the parallel, so resteth the Logari of miles for a minute vnder the Equator.

 $7\frac{1}{2} - 48942365$ 60 - 6931469

15 - 42010896

17. Two Meridians under the Equator, 200 leagues, what in the Parallell of 63. - 15 1

S. Kadius to Congne of the Parallell, fo final the miles of Charice between them, ender the Equator, to their distance in the Parallell. Therefore, let the Antilo of the Latitude bee. added to the Logari, of the distance wnder the Equator; for commeth Logari of distance polosii -osi

200-16004379----63-15 7985067

bun votamp H seis et 23 mo Marsdiges sa Loagues, What under the Equator.

A S the Coline of the Paralell is to Radius; fo shall the di-Aftance on the Paralell, to the distance on the Equator.

Therefore from the Logari, of the distance in the parallell, take the Antilo of the parallell info commeth the Logari of the distance. carallell take the Logari of the Imoward for

1058 - 28473 143 . ord enternor lied errar 54-33 - 5447215 608

100 - 23025928

19. Two Meridians in 70 Degrees : 32 Leagues, what are they in 30 Degrees.

A S the Cofine of 70, to the Cofine of 30, fo shall the di-Altance in 70, bee to the distance in 30. Let the Antilo of 30 degrees be added to the Logari of 32 leagues, and from that fumme take the Antilo of 70 degrees, fo shal be left the Logari of distance. 32-34420180

30--- 1438410

35858590 70-10728852

81 - 25129738

20. Two Meridians in 30 Degrees, distance vi leagues,

A S the Cosine of 30 degrees, to the Cosine of 70 degrees, so shall 81 leagues bee to the Leagues demaunded. To the Logari of 81, adde the Antilo of 70, and from that take the Antilo of 30 degrees, so resteth the Logari of distance.

81 - 25129738 70 - 10728852

35858590

S the halfe of the 8'081024420Ebotts Essen les to 8

21. Two Meridians distant 32 Leagues in 703 in what

A S the 32 is to the Coine of 70 Degrees, so shall 81 Leagues bee to the Coine of the Parallell of Latitude.

To the Logari of 81, adde the Antilo of knowne Latitude, and from it take the Logari of distance in Latitude knowne, so there resteth the Antilo of Parallel, or Latitude vnknowne.

70 - 10728852

A Stadius to the balfe of 00,878,885,868 of bord Latingoin.

A fo facilitie miles of Losgosphpe-18the miles of Mentican difference.

To the Logran of miles 0148,841 — 06 is not rectored.

dians in 30 Degrees : In what parallell they are distantes 2 leagues.

A 5 81 is to 32, so shall the Cosine of 30 Degrees bee to the Cosine of parallell.

E 3

Let

Let the Antilo of 30 degrees be added to the Logari of 32 leagues, and from that take the Logari of 81, so resteth Antilo of latitude.

32-34420180 30-1438410 35858590 81-25129738 70-10728852

23. One Latitude 142, and another 49 15 — a Meridian difrance betweene 561 miles, what Longitude?

As the halfe of the Cofignes of both Latitudes is to Radius, so shall the miles of Meridian distance bee to miles of Longitude, out of the Logari of the miles of Meridian distance, take the Antilo, of halfe Cofignes of latitudes, so commeth Logari, of miles of longitude.

24. A Longitude of 696 miles betweene Latitude 14.2

and 49 15 What Meridian distance.

A S Radius to the halfe of the Cosignes of both Latitudes, so shall the miles of Longitude, bee to the miles of Meridian distance.

To the Logari of miles of Longitude, adde the Antilo of halfe Colignes of Latitudes, so commeth the Logari of Meridian distance.

805-2169119

561 -- 5780317

Let

Let these sew propositions suffice, to shew the disagreement.
betweene the Meridians in a Globe, and the common SeaChart: the following businesse shall be the vse of Mercators
Projection.

1. The Longitude and Latitude of two places.

Et the two places bee the Lixard, in Latitude 50 degrees, and the Iland of Flores in 39 degrees 20; that difference of Longitude 26 degrees, not by the way: if the parts of Latitude difference bee greater then that of Longitude difference, the Rumb is neerer the Meridian then the Parallell; but if lesser, then the contrary. The fore if the parts of Latitude be greatest, let the Logari of the Latitude parts bee taken out of the Logari of the Longitude parts: so resteth the Difference of the Rumb from the Meridian. But if the parts of Longitude bee greatest, as in this proposition, let the Logari of the parts of Longitude bee taken out of the Logari of the parts of Longitude bee taken out of the Logari of the parts of Longitude bee taken out of the Logari of the parts of Latitude; so shall rest the difference of the Rumb from the Parallell.

2. The Rumb and both Latitudes for the distance betweene both places.

Let the Logari of the miles difference of Liatitude, for that reft the Logari of the miles difference of Liatitude, for that the Logari of the miles difference of Liatitude, for that the Logari of the miles of this tance with the Logari of the miles of this tance with the logari of the miles of this tance with the logari of the miles of this tance with the logarity of the miles of this tance with the logarity of the miles of this tance with the logarity of the miles of this tance with the logarity of the miles of this tance with the logarity of the miles of this tance with the logarity of the miles of this tance with the logarity of the miles of this tance with the logarity of the miles of this tance with the logarity of the miles of this tance with the logarity of the miles of the logarity of the logarity of the miles of the logarity of the logarity of the miles of the logarity of

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1276 425 l. † 1276 | 786 — 20582391

3. The Distance and both Latitudes to finde the Rumbe.

I Et the Latitudes be as before, and the distance the same

From the Logari of the miles difference of Latitude, take the Logari, of the miles of distance, so reseth the Logari of the Rumb from the Parallell.

> 640 0000 -27488710 1276 786 -20582391

4. The Rumb and both Latitudes, to finde the difference of Longitude.

Libefore; then let the differentia of the Rumb, be taken out of the Logari, of the parts of Latitude difference, so shall rest the Logari, of the parts of Longitude.

903846 1 24036803 000 30-54 - 5457809

156 0000 0-18578994

5. The difference of Longitude, the Rumbe, and one Latitude, to finde the other

herweine borb the laces.

List one Latitude be 39 20 and the Rumb 30 degrees, to the Northwards of East part of the Parallell, and let the difference of Longitude be 26 degrees.

(33)

To the Logari, of the parts of Longitude, adde the Differentia of the Rumbe, so commeth the Logari, of the parts difference of Latitudes, the which parts to the parts of the knowne Latitude, shall give the parts for vnknowne Latitude.

156 00000 — 18578994 30-5 — 5457809 903846 | 1 - 24036803 39-20-2570754 | 6

6. The Rumbe, and Distance and one Latitude, to

Let the Latitude given be 39 degrees, 20, and the distance the same that was found in the second proposition, and the Rumbe the same that was given in that proposition.

Therefore to the Logari of the Distance, adde the Logari of the Rumbe from the Paralell, so commeth the Logari, of the miles difference of Latitude; the which adde to the knowne Latitude, shall give the Latitude vnknowne.

1276786 — 20582391 30-5 = 6906319 640 | 0000 - 27488710 10 | 40 39 | 20

7. By one Latitude, Rumbe, and Distance, to finde the difference of Longitude.

By the fixt Proposition finde the other Latitude, and so the parts of the Meridian between both Latitudes, then from the

(34)

the Logari, thereof take the differentia of the Rumb, so shall rest the Logari, of the parts of Longitude.

903846 I - 24036803 30-54 - 5457809

156 0000 0-18578994

26 00

8. By one Latitude, Rumbe, and difference of Longitude, to finde the distance.

By the fifth proposition find the parts of the Meridian betweene both Latitudes, with the miles answering therevnto; and by the second proposition finde distance betweene both places.

1560000 0-18528994 | 1 min shuins 1 ad 37 - 30--5- - 5457806 | more was town 20872806

903846 1- 24036803 640 9000 - 27488710

30-00-3474600 7

Lengues-425 1

9. By the Latitudes, and Distance, and Rumbe, to finde the difference of Longitude.

BY the Latitudes, and Rumbe, is the distance found by the fecond proposition, and by the Rumbe and both Latitudes is the difference of longitude found by the fourth proposition.

640 0000 -27488710 903846 1 -- 34036803 30 -5 - 6906319 30-5 - 5457809

1276 786 20582391 156 0000 0-- 18578994

The fixt Propontion Seede the other, Latitude, and for other are of the Maridian between both has a seed to the maridian between t

bet if the Declination bed in the Latitede, as much side in the Aftronomicalli Propositions.

1. The Distance of the Sunne from the next

Equinoctial poynt 30 Degrees, to finde

bis Declination.

Let the Logari of the Sunnes distance, from the next Equinoctial point, bee added to the Logari of the Sunnes greatest declination, the summe thereof is the Logari of the declination.

23-3-9194226 30-00-6931469 11-30-16125695

2. The Latitude 51-32 and Declination 23 - 30, to finde the Amplitude.

From the Logari of the Sunnes declination, take the Antile of the Latitude, forestern the Logari of Amplitude.

23 -30 - 9194226 51 -330+24747198; - 82 39-52-4447028

3. The Latitude 51-32, and Declination towards Latitude 23-30, at what time doth the Sun rife and set.

From the differentia of the declination, take the differential of the Latitude, so shall rest the Antilo: of the time after midnight; but if the declination be from the Latitude, it shall be the Logaris of time after the houre of sixe.

23 -30 -8328403 51 -32 -2300593 33-11-6027810-56-49

Setting. -8 - 13 Rising. 3 -- 47

.oxu 193

But if the Declination bee from the Latitude, as much as it was towards the Latitude, then shall the time of Rising be the time of Setting, and Setting the Rising.

4. The Sunne in the last minute of Aries to finde the right Asception.

Romthe Antilo of the Sunnes place, from the next Equinoctiall poynt, take the Antilo of the declination, the rest shall be the Antilo of the right Ascension.

30 — 00 — 1438410 11 — 30 — - 202795

5. The Latitude 51 2, and declination 132: for the

To the Differentia, of the Declination, adde the Differentia of the Latitude, the Sunne, the Logari, of time after fixe.

23 — 30 — 83 3 8408 51 — 30 — 22 8 8 6 5 0 20 — 14 — 106 1 70 5 3

6. The Latitude 312, and Declination 232, for Altitude of an East Sunne.

Rom the Logari, of the Declination, take the Logari, of the Latitude, foresteth the Logari of the Altitude.

23 — 30 — 9194226 51 — 30 — 2451230 30 — 38 — 6743996

7. The Latitude 512, and Declination 23 2: for the Sunnes Altunde at fixe.

TO the Logari of the Declination, adde the Logari of the Latitude; so commeth the Logari of Altitude.

8. The Latitude 51 3, and Declination 23 3: for the Azimuth of fixe.

To the differentia of the declination, adde the Antilo: of the Latitude; so commeth the differentia of the Azimuth.

9. The Azimuth 20, and Altitude 30-38, and a declination 23 degrees 2, what times

Et she Antilo: of the declination, be taken out of the Antilo: of the Latitude, so shall rest the Logari: of the time, wanting of Noone.

10. The time wanting of Noone 69-45, and Altitude, 30-38, and Declination 23 , what Azimuth.

To the Antilo, of the Declination, adde the Logari, of the time wanting of Noone, and from that summe take the Antilo, of the Altitude, so resteth the Logari, of the Azimuth.

13-30-865823 " Shart Links 69-46-637224 ISMINE SAL

1503047 20-28-1503047 -30-313-05-00-

1. In Spericall, oblique Triangles, three sides given for an Angle opposit to one. ersomuth of fixe.

THe one fide, 40 Degrees, and the other 43 degrees, 20. and the other 30 degrees, 30, for the Angle opposite the laft.

86-30-9981348 6-30-11132032

8849316 4424658-8152027 30-30 861 629 NAME OF 1 declination 32 degrees 2, what time.

1365056-19908832.

46-15-3087403-11756805

2. The Almicanters of two Starres with their distance, for the difference of Azimuth betweene them.

He ones Almicanter 56, and the other 34, and the diflance betweene them 37-56.

10. I be time water of Noves 1726 89 Mintere

30-38, and 25 60 70807 25 how 88 - 08

37-56-7887266 and Declina Pooling and Start

I. the time wanting of Moone 2008 for that funde t . million

45-27-2984857-12089328

3. The

3. The Latitudes of two places with the great Circle distance, for Longitude difference.

Land the great Circle distance 47 degrees.

13-3249511 1644103105805-75-75 5220515-6500026 47-6819984

42-30-2027505-133663613 117 .0

4. In Spericall oblique Triangles, two sides, with

The Declination of two Starres, with their difference of right Ascension, for their distance, supposing the one to have declination 50, and the other 46, and difference of right ascension, 46-15.

86-20-20981348° 52 6-20-1132032 113080 8849316 4424658-8152027 46-15-3084869-11761509 1365802-19913536 30-30-8615546 5. The Latitude, the Altitude, and Azimuth, for the declination of a Starre.

LAzimuth 45 - 27 minutes.

68 - 9271839

4635919 — 7686324 45 - 27 — 2982613 — 12099637 1383089 — 19785961 37 - 56 — 7888750 -

6. The Latitude of two places with the difference of Longitude for the great Circle diffance.

L'in Longitude 42 - 30, for great Circle distance.

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116		39		72	26311231
5:7	A SECRETARY OF THE PARTY OF THE	40		73	26172953
8	48284786	41	31941805	74	26036865
9		42		75	25902661
10	46052654	43	31465579	76	25770224
11	A CONTRACTOR OF THE PROPERTY OF THE PARTY OF	44		77	25621361
112	44229086	45	31014393	78	25510474
13	43428600	46	30803277	79	25383075
14	42711335	47	30576105	80	25257297
15	42010896	48	30365545	81	25150361
16	41351681	49	30159389	82	25010361
17	40645806	50	29957320	83	24889152
18	40174132	51	29759323	84	24768712
19	39633418	52	29568568	85	24650338
20	39120444	53	29374629	86	24534067
21	38632526	54	29188742	87	24418471
22	38167305	55	29004252	88	24304175
23	37722633	56	28824071	89	24199543
24	37297155	57	28647035	90	24079446
25	36969198	58	28473143	91	23968953
26	36496733	59	28295290	92	23859669
27	36119248	60	28150782	93	23751551
28	35755589	61	27968814		23644606
29	35404691	62	27806230	95	23538783
30	35068620	63	27646214	96	23434083
31	34737777	64	27488722	97	23330439
32	34420180	65	27333700	98	23223481
33	44145668	66	27181011	99	23126351
37.2	2001.1002	1 '		100	23025928

IOF	CONTRACTOR OF THE PARTY OF THE	134	20098704	1 67	17897600
2	22827832	35	20024804	68	1783791
3	22730259	36	19950998	69	1777856
4	22633647	37	19877744	70	17722154
5	22537956	38	19805013	71	17660916
6		139		72	17602611
7	22349271	40	19661159	73	17544632
7	22256254	41	19589955		17487000
9.	22164079	42	19509286		17429689
10	22072751	43	19449105	76	17372708
11	21982256	44	19379420		17316051
12	21892564	45	19310215		17259711
13	21803672	46	19241492	79	17205689
14	21715562	47	19173224	1 -	17148331
15	21628237	48	19105428	81	17092583
16	21550277	49	19038085	82	17037480
17	21455805		18991191	83	16982690
18	21374205	51	18904750	84	16928191
19	21286311	52	18838745	85	16873991
20	21202665	53	18773170	86	16820077
31	21119638	54	18708024	87	16766464
2.2	21041878	55	18643288	88	16713126
23	20955700	56	18578994	89	16660082
24	20874736	57	18515092	90	16607303
25	20794409	58	1845 1601	9.1	16563818
26	20707634	59	18388505	92	16502590
27	20635685	60	18325815	93	16450648
28	20557252	61	18263509	94	16399005
29.	20479433	62	18201589	95	16347557
30	20402207	63	18140045	96	16296404
3.I.	20325585	64	18077884	97	16245513
32	20249532	65	18018094	98	16194879
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201	16044505	134	145243371	1 67	13205061
2	15994873	35	14481767	68	13167677
3	15945495	36	14439230	69	13130437
4	15896159	137	14396945	70	13093330
5	15847456	38	14354839	71	13056362
6	15798788	39	14312913	72	13016668
7	15750365	40	14271159	73	12982831
78	15702170	41	14229578	74	12946267
9	15654307	42	14188172	75	12909736
10	15606474	43	14146932	76	12873541
II	15558969	44	14105867	77	12837373
12	15511688	45	14064969	78	12801339
13	15464628	46	14024237	79	12765430
14	15416792	47	13983665	80	12729651
15	15371165	48	13943266	81	12693999
16	15324764	49	13903023	82	12658477
17	15278567	50	13862942	83	12623079
18	15232603	51	13824112	84	12587807
19	15186836	52	13783259	85	12552660
20	15141273	53	13743655	86	12517634
21	15086875	54	13704206	87	12482729
22	15050777	55	13664912	88	12447948
23	15007330	56	13625775	89	12413644
24	14961089	57	13586788	90	12379949
25	14916535	58	13547951	91	12344318
26	14872200	59	13509239	92	123 10011
27	14828052	60	13472934	93	12275824
28	14784094	61	13432344	94	12241751
29	14740368	62	13394101	95	A STATE OF THE PARTY OF THE PAR
30	14695757	63	13356004	96	12173955
31	14653373	64	13318053	97	12142652
32	14610174	65	13280251	98	12106618
33	14567160	66	13242591	99	12073118
3	4014	1		300	12039729

300 12006 447	134		47	10023929
2 11979396	35	10936245	68	9996721
3 11940212	36		69	9969585
4 11914510	37	10876722	70	9942520
5 11874432	38	The second secon	71	9915530
6 11841699	39		72	9888613
	40	and the second s	73	9861766
8 11776553	41	10758721	74	9834988
9 11744137	42		75	9808292
10 11711827	43	10700248	76	9781661
11 11679619	44			9755099
12 11647517	45		77	9728978
13 11615516	46		79	9702186
14 11583617	47	10	80	9675839
15 11551827	48	10555515	81	9649558
16 11520131	49		82	9623341
17 11488533	50	A	83	9597202
18 11457038	51	10469689	84	9571103
19 11425643	52	10441503	85	9545116
20 11394344	53		86	9519175
21 11363139	54	10384584	87	9493300
22 11332036	55	10356376	88	9467492
23 11300963	5.6	10328244	89	9441759
24 11270117	57		90	9416086
25 11239300	58	10272217	91	9390476
26 11208576	59		92	9364943
27 11177948	60	10216546	93	9339460
28 11147409	61	10191542	94	9314044
29 11116918	62	10161145	95	9288694
30 PIO86620	63	10133519	96	9263410
31 11056365	64	10106013	97	9238188
32 11026200	65	10077578	98	9213031
33 10996128	66	10051217	99	9187938
t took theory			400	9162915

496	2137939		8347105	067	7614259
COL	9113028	35	8324093	661	7592868
3	9088185	36	8301130	69	
4	9067605	37	8278219	70	7550223
0.50	9038683		8255357	24	7528967
6	9014018	39	8232556	72	7507359
7	8989427	40	8209803	73	7486597
7 8	8964877	41	8187102	74	7465474
9	8940820	42	8164454	75	7444403
10	8916269	43	8141855	76	7423372
1.1	8891619	44	8119308	77	7402385
12	8867318	45	8096810	78	7381443
13	8846959	46	8073595	79	7360546
14	881888	47	8051965	80	7339691
150	8794766	48	8029619	81	7318878
16	8770698	49	8007322	82	7297953
17	8746704	50	7985074	83	7277424
18	8722736	51	7962859	84	7256701
19	8700841	52	7940729	85	7236042
20	8675008	53	7918629	86	7215467
21	8651223	54	7896578	87	7194910
2.2	8627498	55	7874577	88	7174392
23	8603829	56	7852661	89	7153924
24	8580216	L 57	7830497	90	7133496
25	8556658	58	7808907	891	7113109
26	8533158	59	7787034	92	
27	8509712	60	7765289	93	7072459
28	8486320	61	7733610	94	7052174
29	8462983	62	7721706	95	7031973
30	8439697	63	7700278	196	701 1794
31.	8416468	64		97	6991654
32	8393294	65	7657176	198	6971553
33	8370249	66	7635694	199	6951490
7	201 / 100g		1.	. 1500	6931469

B 3

501	6911490	134	6273591	67	5673959
2	6891549	35	6254878	68	5656260
3	6871648	36	6236212	69	5640329
4	6851787	37	6217569	70	5621188
0	6831966	38	6198995	71	5603659
5	6812184	39	6180395	72	5586160
7	6792440	40	6161859	73	5568694
8	6772774	41	6143357		5551256
,	6753067	42	6124890	75	5533851
10		43	6106459	76	5516475
11	6733444	44	6088060		5499128
12	6694305	45	6069693	77 78	5482233
13		46	605 1363	79	5464526
The Automotive of the Control of the	6674791	47	6029407	80	5447260
14	6635317	48	6014797	81	5430026
16				82	5412848
	6616482	49	6004384	83	5395680
17	6597122	50	5978371	84	5378541
	6577799	51		85	
19	6558513	52	5642070		5361433
20	6539263	53	5923981	87	
21	6520049	54	5905600		5327306
22	6500874	55	5887870	88	5310381
23	6481739	56		89	
24	6462637	57	585 1899	90	5276329
25	6443568	58	5833963	91	5259390
36		159	5816237	92	5242487
27	6405545	60	5798183	93	5225607
28	6386588	61	5780317	94	5208759
29	6367665	62	5762532	95	5191938
30	6348781	63	5745752	96	5175147
31	6329932	64	5727008	97	5158386
32	6311116		5709092	98	5141623
33	6292336		5691610	99	5124923
145	१५० ००१।	1		1600	5108255

601	15091601	134	4557063	1 67	14056155
	5074977	35		68	4034669
3	101	36	4525566	69	4019711
4		37	4509854	70	4004775
5		38		71	3989851
6		39	4478502	72	3974969
7	4992594	40	W-0	73	3960098
	4979603	The second second	4447256	74	3945250
9			443 1668	75	3930423
-	4942963	43	4416093	76	3915622
	4926582		4400568	77	3900840
12	4910228	45	4385050	78	3886079
-	0		4369558	79	
14		47	4357339	80	3872334
15	4861380	48	4338644	81	3841929
16	4845082		4323224	82	3827255
17			4307830	83	3812604
18	4812667	51	4292456	84	3797973
-	4796499	52		85	3783362
	4780357	53	4261781	86	3768775
21	4764082	54	4246478	87	3754209
22	4748152	55	4231199	88	3739664
23		56	421-5944	89	3725140
24		57		90	3710636
25	4700035	58	4185502	91	3696153
	4685147	The state of the s	4170315		3681691
27	4668086	60	4155153		3667251
28	4652151	64	4140014		3652831
4. 10. 13	4636239		4124942	950	3638433
30	4620352		4109729	896	3624055
	4604493		4094733	897	3609697
32	4588656	65	4079074	86	3595360
33	4572847	66	4064655	29	3581045
100	008	1.	1	700	3566750

701	3552478	134 3092360	1 67 2652683
003	3538219	35 3078847	68 2639655
3	3523983	36 3065251	69 2626643
-	3509721	37 3053030	70 2613646
100000000000000000000000000000000000000	3495573	38 3038113	71 2600668
	3481400	39 3024542	72 2587706
-	3467246	40 3011049	73 2574762
· 8	3453111	41 2997545	74 2562375
9	0	42 2984058	75 2548921
10	3424903	43 2970592	76 2536028
II	3410828	44 2957141	77 2523149
12		45 2943710	78 2510288
13	3382737	46 2930297	79 2497441
14	3368724	47 2916901	80 2484612
	3354727	48 2903520	81 2471791
16	3340749	49 2890161	82 2459005
17	3326793	50 2876820	83 2446225
	3312856	51 2863496	84 2433573
	3298938	52 2850188	85 2430714
	3285039	53 2836899	86 2407984
-	3271159	54 2823629	87 2395268
	3257301	55 2810373	88 2382571
	3243463	56 2797662	89 2369889
	3229626	57 2783920	90 2356223
525	3215834	58 27707 18	91 2344573
	3202052	19 2757534	92 2331937
	3188288	60 2744378	93 2319320
	3174540	61 2731219	94 2306720
	3160967	62 2718087	95 2294133
30	- Designation of the last of t	63 2704970	96 1281 560
134	3933418	64 2691873	97 2209694
38	303 9746	65 2678793	98 225 6467
53	3106094	66 2665730	800 2231492
			1 1800 2231492

1011319814	3 134 1815220	67 1427164
2 220646		68 1415635
2 219400		69 1404121
4 218156		70 1392618
5 216912		71 1381134
6 215671		72 1369659
7 21443		73 1358197
8 213193		74 1346749
9 31208		75 1335314
10 31072 1		
12 208254	1 1 1 101-01	
		79 1289703
13 207024		80 1278261
14 205794		0-1
	and the lease being the party of the lease o	82 1255636
16 203349		1 0 0
17 202114		84 1232982
19 199071		
20 198450		87 1199103
21 197232		
22 196002		
23 194798		90 1165339
24 193584	All the bar of become and become	
25 192372		91 1154108
26 191160		92 1142892
27 189950		A STATE OF THE PARTY OF THE PAR
28 188742	0 61 1496608	94 1120495
29 187535	1 62 1485001	95 1109315
30 186329	7 63 1473408	96 1098147
31 185125	4 64 1461826	97 1086994
32 183922	7 65 TAS0258	90 1075054
33 182721	7 66 1438704	99 1064712
		1 1900 1053605

2 103140		671335
3 102032	7 35 67208; 6 36 661398	68 3252
4 100925		3149
5 99820		70 20450
6 987160	38 649054	2942
STREET, STREET		28309
7 976129 8 965111	41 608122	73 27371
9 954101	42 597497	4 20344
10 943107		75 25317
11 932124	44 576288	76 24292
12 921152	45 565704	77 23268
13 910192	46 555128	78 23 2457
14 899260	47 544560	79 212237 80 202027
15 8883 10	48 534010	
16 877389	49 523464	7.020
1 1/ 866484	50 512934	1 0 1-0-040
18 855579	51 502413	84 161276
19 844694	52 491902	minutes and
823812	53 481404	
	54 470915	86 140901
22 812098	55 450440	
23 801262	56 449974	89 110610
Co. Contract of the second	57 439518	90 100504
	58 429076	91 90407
27 758016	59 418643	92 80406
	60 408524	93 70247
	61 397808	94. 60181
30 725707	62 387408	95 50125
The second secon	63 377019	96 40082
714958	64 366637	97 30044
33 603501	65 356272 66 345915	
CEITOI TOAL		99 10005
	1	000

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o.D	Degrees.	-3	y Degree	ı.D	egrees.	,	asanga Clu
M.	Equall P.	M.	Benjala 1	M.	Equall P.	M.	Regula N
1	10000	31	10000	1	610013	31	910073
2	20000	32	20000	2	20014	32	20076
3	30000	33	30000	3	30015	33	30079
4	40000	34	40000	4	40016	34	40082
5	50000	35	50000	5	50017	35	50085
6	60000	36	60000	6	60018	36	60088
78	70000	37 38	70000	78	70019	37	70091
	2 80000		80000	5 - 15 246	80020	38	80095
2	90000	39	90000	9	90022	39	90099
lo	100000	40	400000	10	700024	40	1000103
II	10000	41	10000	II	10026	41	010107
13	20000	42	20000	12	20028	42	020111
13	30000	43.	30000	13	30030	43	030115
14	40000	44	40000	14	40032	44	040119
15.	50000	45	50000	15	50034	45	050123
16	60000	46	60000	16	60036	46	060127
17	70000	47	70000	12	70038	47	070131
18	80000	48	80000	18	80040	48	080135
19	60000	49	90001	19	90042	49	090140
20	200000	50	500002	20	800044	50	1100145
21	10000	51	10003	21	10046	51	110150
22	20000	52	10004	22	20058	52	120155
23	30000	153	30005	23	0.30050	53.	130160
24	40000	54	40006	24	40052	54	140165
25	50000	55	50007	25	50055	55	150170
26	60000	56	60008	26	60058	56	160175
27 30	70000	57	70009	27	70061	57	170180
28-	80000	58	80010	28	80064	58	180185
29	CONTRACTOR OF A STATE OF	59	90011	29	90067	59	190190
30	300000	601	600012	30	9000701	60	1200196

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2.[Degrees.		eargol (.)	3.1	Degrees.		assageKile
M.	Equall P.	M.		M.	Equall'P.	M.	Henry Land
1	1210202	31	1510425	1	1810762	31	2111238
3	1220208	32	1520434	2	1820776	32	2121257
3	1230214	33	1530443	3	1830790	33	2131276
4	1240220	34	1540453	4	1840804	34	2141295
5	1250226	35	1550463	5	1850818	35	2151314
6	1260232	36	1560473	6	1860832	36	2161333
7	1270238	37	1570483	7	1870846	37	2171352
78	1280244	38	1580493	8	1830860	38	2181372
9	1290251	39	1590503	9	1890875	39	2191392
10	1300258	40	1600513	10	1900890	43	2201412
11	1310265	41	1610523	11	1910905	41	2211432
13	1320272	42	1620534	12	1920920	42	2221451
13	1330279	43	1630545	13	1930935	43	2231473
14	1340286	44	1640556	14	1940950	44	2241494
15	1350293	45	1650567	15	1950966	45	2251515
16	1360300	46	1660578	16	1960982	46	2261936
17	1370307	47	1670589	17	1970998	47	2271557
18	1380315	48	1680600	18.	1981014	48	2281579
91	1390323	49	1690612	19	1991030	49	2291601
20	1400331	50	1700624	20	2001046	50	2301623
21	1410339	51	1710636	21	2011063	51	2311645
22	1420147	52	1720648	22	202 1080	52	2321667
23	1430355	53	1730660	23	203 1097	53	2331690
24	1440363	154	1740672	24	2041114	54	2341713
25	1450471	55	1750684	25	2051131	55	2351736
26	1460380	56	1760697	26	2061148	56	2361759
27	1470789	57	1770710	27	2071166	57	2371782
28	1480398	158	1780723	28	2081184	58	2381806
29	1490407	59	1790736		2091202	59	2391830
30	1500416	.60	1800749	30	2101220	60	2401854

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41	Degrees.		y.Degree	5.1	Degrees.		S. Degrees
M.		M.	the E. W	M.	Equall P.	M.	السليسا
1	2411878	31	2712702	I	3013732	31	3314994
2	2421903	33	2722733	2	3923770	32	3325040
3	2431927	33	2732764	3	3033808	33	3335087
4	3441952	34	2742795	4	3043847	34	3345134
5	2451977	35	2752827	5	3053886	3.5	3355181
6	2462002	36	2762859	6	3063925	36	3465228
7	2473027	37	2772891	7	3073965	37	3375276
8	2483053	38	2781923		3084005	38	3385174
9	2493079	39	2791956	9	3024045	39	3395372
io	2502105	40	2802989	10	3104085	40	3405421
It	2513131	41	2813022	H	3114126	44	3415470
12	2522157	42	2823055	13	9134167	143	3425519
14	2539184	43	2833088	13		43	3435568
14	2542211	44	2843122	14	3144249	44	3445618
15	2552238	45	2853156	15	3154291	145	3455668
16	2362265	45	2863 190	16	3164333	146	3465718
17	2572293	47	2873774	17	3174375	143	3475769
18	2382321	48	2883259	The Laboratory	3184417		3485820
19	2592349	49	2893294	A Miles	3194460	7	1
20	2602377	50	2903329				The second secon
21	2612405	21	2913364	100000	3214546	2.	3515975
22	2622434	230	2923400		A STATE OF THE PARTY OF THE PAR		
33	2532463	13	2933436	- 6			3536079
24	2642498	154	2943472	and the last	3244678	AND REPORTED AN	
25	36 52 523	55	2953508	1			3556185
26				1	3264767	200	
27	2672581	157		-	3274817	52	
28	The state of the s	58	2983619	10000	3254857		
29	2692641	159			3294902		
30	2702671	160	3003694	130	13304948	1 oc	3606455

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b. I	Degrees.	á	s. Degree	17.	Degrees.		Degrees
M,	Equall P.	M.	Bear et . A.	M.	Equall PM	M.	भा- त्वारो
Ti	3616510	31	3918306	1	4220403	3.1	4522823
2	3616565	32	3928371	2	Street, Married Street, Printer Street, Street	32	4732910
3	3636621	33	3938436	3	4140154	33	4542997
4	3646677	34	3948502	4	4256630	34	4553084
5	3656733	35	3958568	5	4260706	35	4563172
6	3666789	36	3968634	6	4270783	36	4573260
7	3676846	37	3978701	78	4184860	37	4583349
8	3586903	38	3988768		4290938	38	4593438
9	3696960	39	3998835	9	4301016	39	4603527
10	3707018	40	4008903	IO	4311094	40	4613617
TI	3717076	10 M 12	4018971	11	4321173	41	4623707
2	3737134	42	4029039	12	4391252	42	4633797
13	3737193	What sales	4039103	B	正 不 的	43	4643888
W. 100 10	3747252	0.00	4049177	14	4351411	44	4653979
15	37573LE	45	4019246	14	4361491	45	4664071
16	3767371	46	4069316	16	4371571	46	4674163
17	377743 1	47	4079386	17 18	4381652	47	4604255
	378749 I	48	4089456	-	4391733	48	4694348
19	3797552	49	4099517	19:		49	4704441
21	3807613	50	4109598	20	4411897	50	4714535
	3817674	5	4119669	21	4421979	51	4724629
23	3827736	100 mg	#120741	00	4432062	\$3	4734734
	38377 98 3847860	0.2	4149885	34	4452228	53	4744819
25	3857923	55		25	4462 : 12		C. P. Mariana region & a 1997 and L.
26	3867986	200	4139958 4170031	26		55	4765010
-	3878049		#480F06	27	4482481	57	4785203
	3888113	-	4190179	_	4492566	58	4795300
29		Contract of the Contract of th	4200233	12.14220	4502651	59	4805397
			4310928				4815495

8.1	egrees.	.23	rt,Degn	9.D	egrees.	:205	no Degr
M."	Equall P.	M.	Care I 10	M.	Equal P.	M.1	Happin
ī	4825593	3.1	5128736	ī	5433275	31	5736236
2.	4835692	32	5138847	2	5442400	32	5746376
- 3	4845791	33	5148959	3	5452526		57565 16
4	4855890	34	5159071	4	5462652	34	5766657
5	4865990	35	5169184	5	5472778	35	5776798
6	4876090	36	5179297	6	5482905	36	5786940
78	4886191	37	5180411	7	5493032	374 38	5797082
. N	4896292	38	5199525	10000	5503160		5807223
9	4906394	39	5209640	9	5513288	399	5817512
IO	4916496	40	5219755	10	5523417	40	5837656
LI	4926598	41-	5239986	12	5533546	41	5847801
12	4936701	42	1	13	5543676	42	5857946
13	4946804	43	5250102	14	5553806	434	5868092
14	4956908	44 45	5270336	15	5574068	44	5878238
16	4977116	46	5280454	13	5584200	45	5888385
17		47	5290572	17	5594332	47	5898532
18	4997326	48	5300691	18	5604465	48	-5908680
19	-	49	5310810	19	5614598	49	5918828
20	4 5 3 5 5 5 5 5 5 F 4 5 F	50	5320930	20	5624732	50	5928977
31	5027645	51	5331050	21	1 0 0	51	5939126
22	5037752	52	5341170	22	5645001	530	5.949276
23		53	5351291	23	5655136	53	5959426
24	5057968	54	5361412	24	5665272	54	5969577
25	5068076	35	5371534	25			5979728
26		56	5381656	26	The state of the s		5989880
27	5088294	57	5391779	27	5695682		6000033
28		190 C. T. C. L. 1940.	5401902	28	A STATE OF THE PARTY OF THE PAR		A CONTRACTOR OF THE PARTY OF TH
29			5412026				6020338
30	5118625	60	5422150	30	15726097	60	6030492

Section 6.4

M	. Equall P.	M.	Thomas (M.	Equall P.	M.	Carried L.
-	6040646	31	6345519	1	6650893	31	6956780
1			6355690	2	6561578	32	6966986
	6060956	33	6365861	3	6671265	33	697719
4	6071111	34	6376033	4	6581455	34	6987399
3	6081268	35	6386236	5	6591645	35	6997606
•	609 1429	36	6395379	6	6701825	36	7307814
2	6101582	37	6436553	7	6712026	37	7518322
8	6111740	38		8	6722217	38	7828272
9	6121898	39	6425902	9	6732401	39	7038442
IG	6132057	45	6437077	10	6712601	40	7048652
I	6142217		5447253	H	6752794	41	7358863
13	6152377	42	6457429	12	67.62983	42	7069075
3	6162538	43	6467606	13	6773182	43	7079287
	6172699		6477784	14	6733377	41	7089500
5	6182861	145	6487952	15	6793572	45	7099714
6	6193023	46	6498141	16	6803768	45	7109928
7	6203186	47	8503320	17	6313955	47	7120143
8	6213349	48	6513500	18	6814162	49	7130358
9	6223513	49	6528685	19	6834360	49	7140574
0	6233677	50	6538861	20	6344558	50	7150791
1	6243843	51	6549013	21	6354757	SI	7161008
3	6254007	52	6559225	22	6864957	52	7171226
3	6264173	53	W	23	6875157	53	7181445
4	6274339	54	657959T	24	6885358	54	7191664
5	6284506	55	6589775	25	6895559	55	7201884
5	6294673	56	6599959	Control of the Contro	6935761	56	7212104
人	6304841	57	6610141		6915961	57	7222325
8	6315010		6620333	28	6915167	58	the second section of the last
9	6325179	59	5530516	29	6936371	59	7232547
0	6335349	60	5547773	351	6745575		7252992

-	Degrees.	404 400	13.Degr	M.	Equall P	M	
M.	Equall P.	M.	Descript M	The state of	The second secon	M	0.0
I	7263216	3 E	7570220	I	7877821	31	8186044
2	7273449	37	7580464	3	7888085	3,2	8196329
3	7283665	33.	7599708	3:	7898350	33	8206615
4	7293890	34	7600953	4	7908615	34	82 16902
5	7304116	35	7611199	5	7918881	35	8227189
6	7314343	36	7621445	6	7929148	36	8237477
-	7324579	37	7531692	7.	7939415	37	8247766
8	7334798	38	7641940	7 8	7949683	38	8258055
		39	7652188	9	7959952	39	8268345
9	7345037	40	7662437	10	7970221	40	8278636
10	7355256	and the same	CONTRACTOR OF THE PARTY OF THE	II	7980491	41	8288928
1	7365486	41	7672687	12	7990762	42	8299220
5	7371717	42	7682,937	-	The second secon	No. of Lot	8309512
13	7385948	43	7693188	13	8001034	43	8319807
14	7396180	44	7703440		8011306	44	8330102
15	7406412	45	7713692	15	8021579	45	
16	7416645	46	7723945	16	8031853	45	8340397
17	7436879	47	7734199	17	8043127	47	8350693
18	7437113	48.	7744458	18	8052402	48	8360990
19	7447348	49	7754708	19	8052678	49	8371187
20	7417584	50	7764964	20	8072955	50	8381585
N.	7467820	54		21	8083232	21	8391884
3	7478057	52	7785475	the second	8093510	52	8402 184
13	7488295		7795735		8103789	53	8412184
TA.		53	7805993	24	8114068	54	8422785
3	7498533	54		35	8134348	55	8433087
25	7508772	55	7816252	36	8124629	56	8443390
16	7519012	56		14	The Contract of the Contract o	57	8453693
77	7829252	57	7838773	1	8144911	-	
28	7539493	28	7847033	28	8155193	58	8463997
29	7549735	59	7857295	29	8165476	59	8474303 8484608
30	7559977	60	7867558	130	8175760	60	404000

14.	Degrees.	13.Degrees.	1	.Degrees.	.29	12.Degre
M.	Equall P.	M.	M.	Equall P.	/ M.	May By A
1	8494914	31 8804458	1	9114270	31	9425674
2	8505221	32 8814788	2	9125056	32	9436053
3	8515529	33 8825119	3	9135411	33	9446432
4	8525838	34 8835451	4	9145766	34	9456812
5	8536147	35 8845783	5	9156122	35	9467193
6	8546457	36 88;6116	6	9166479	36	9477575
8	8556768	37 8866450	7	9176837	37	9487958
	8557080	38 8876785	8	9187196	38	9498342
9	8577392	39 8887121	9	9197556	39	9508726
10	8587705	40 8897457	10	9207916	40	9519111
II	8598019	41 8937794	IP	9218277		9529497
13	8668334	42 8918132		9228039		9539884
E3	8618649	43 8928471	25.75			-
	8528965	44 8938810		9239001		9550272
15	8639282	45 8949150	15	9259730		9571051
16	8649600	A M DE COMMENT		9270095		-
种	8559918	to the state of			- 2	9581441
18	8870137		BOR 650 ES	9285461		9591832
19	8680557		£3.00			9661224
- 57	8690878	THE R. P. LEWIS CO., LANSING MICH.			2 1	9612617
	8701200	TO COCKADIL KAL	-	9311565	50	962301F
13	1040 IX		-	9221934		0633406
13	8721845	AN KENNY YOUNG		332304		643802
No. 120	8732169					694198
-			to by the		1.5	664595
ALC: NO. 17	8742494	CAT MALAN MEN AND A COLUMN			55 9	674993
0	8753819	2 I DA AT KEINER	26	The same of the same of the	56 3	685392
-	8763 45		the contract of		213	1694792
8	8773472	VINE ZO BOLLA	281	394543	Mr. on Mary of	706193
12	8383800			104919	Albert Start May 20	716595
30-4	07941291	60 9104249	30 5	415296	50 15	726997

The A

M.	Equall P.	M.		M.	Equall P.	M,	1
1	9737400	31	10049910	I	10363229	3,1	10677387
2	9747804	1 2	60341	2	73687	2	87874
3	9758209	3	70773	3	84146	3	98362
4	9768615	4	81206	4	94606	4	10708851
5	9779022	35	91639	5	10405067	35	19341
6	9789430	6	10102073	6	15529	6	29832
7	9799839	7	38 12508	8	25992	7	40324
7 8	9810248		22944	8	36456	8	50817
9	9820658		33381	9	46921	2	61310
O	9831069	40	43819	10	57387 67854	40	71804
I	9841481	I	54258	I	67854	I	82299
2	9851894	2	64698	2	78322	2	92795
3	9862308	an religion to	75119	3	88791	3	10803292
4	9872723		85581	1.4	99261	4	13790
15	9883139	45	96024	15	10509731	45	24289
6	9893556		10206467	6	20202	6	34789
	9903973	7	16911	12	30574	12	45290
78	9914391		27356	8	-8 41147		55792
9	9924810	St. Street, or other	37802	9	8 51621		The second secon
20	9935230				62096		
1	9945651	A Comment	58697	1	72572		to the parties of the same of
2	9956073	2	69146	2	83049	2	4.4 (4. 2
3	9966496		79596	3		3	11
4	9976920			4	10504006	4	1882
25	9987345	1		25	14486	5 55	2933
6	999777	6		100		1 6	
7		7					503.5
8			and the same of th			1	A STATE OF THE STA
9	2905	1		4 6 7	56410	5 3	7138
30	39480		1 10 10	100		1 160	8189

0.	Degrees.		Tieup/i - N	М.,	Degrees. Equall P.	M.	M. Equali
1.	Equall P.	M.	and the second section is a second	ī	11625173	31	11942974
ī	10992409	31	11308 124	2	35751	2	53584
2	11002925	12	18870	1	46330	3	64195
3	13442	3	29418	3	56910	-	74807
4	23960	4	39967	4		100 000	85420
5	34479	15	50517	5	78073		96035
6	44999	10	61068	1-		CHILDREN CO.	12006651
	55530		71630	8	88656		17268
78	66042	8	82173		99240		27886
9	76569		92727		F170982	9	The second secon
-	87089	S MINERAL	11403282	10	2041	40	49125
10	97614		13838		3099	3 1	
I	11108140				4158		The second second
2	1110014	100	86 3495		17 52170	5 83	70368
3	1866				The second secon		89991
WAY.	2919	100		3.	7335	9 5	The state of the s
_5	3972	1					12 102242
6	5025	1 1				6 7	12869
79	6078		8775	8 08	1180514	1 18	
_2	7131	4			-	7 5	34320
3	8185	half Deli		7 20		4 59	4475
20	9238	4 50			3693		5538
4	1 120291	9	1945		4753	سر الت	6601
	1345	2 6	3002	0	3 67 5813		2 200 7665
1	3 2399	2	3 6 40 8		4cce 687	2 0	40 070 8728
	4 3453	0	5115		The second secon		9792
-	5 4506	19	6172		793		6 1220856
1	5 5560	9	7239	8			7: 00 1919
1	7 661	0	8285	man Pallery		STATE OF THE PERSON.	8 2983
-	766		8 934	100	8 65 1113		9 4047
P	9 872		617 46040	20	0 2 3230	55 6	0 5111

20	Degrees.		2019 (CL)	12	Degrees.		
M.	Equall P.	M.	Lung	M.	Equall P.	M.	(
I	12261760	31	12581562	I	12902411	31	13224338
2	72404	2	92240	2	13124	2	35088
3	83049	3	12602919	3	23839	3	45839
4	93695	4	13599	4	34555	4	56591
5	12304342	5	24280	5	45272	5	67345
6	14990	6	34963	6	55990	6	78100
7	25639	7	45647	7 8	66709	7	88856
8	36289	8	56332		77430	7 8	99613
9	46940	9	67018	9	88152	9	13310371
IO	57593	40	77705	10	98875	40	21131
1	68247	1	88393	1	13009999	I	31892
2	78902	2	99083	2	20324	2	42654
3:	89558	3	12709774	3	31051	3	53417
4	12400215	4	20466	4	41779	4	64182
.5	10873	5	31159	5	52508	5	74948
6	21532	6	41853	6	63238	6	85715
7 8	32193	8	52549	7	73969		96483
	42855		63246	8	84702	8	13407253
9	53518	9	73944	9	95436	9	18024
10	64182	50	84643	20	13106171	50	28796
I	74847	I	95343	I	16907	1	39569
2	85513	3	12806044	2	27645	3	50344
3	96180	3	16747	3	38384	3	61120
	12506849	4	27451	4	49124	4	71897
5	17519	3	38156	5	59865		82676
6	28190	6	48862	6	70607	5	93456
7	38862	71	59569	78	81351	7	13504237
8	49535	8	70278		92096	8	15019
9	60209	9	80988	9	1 3202842	9	25803
01	70885	601	91699	30	13589	601	36588

D.3

1.,	Equall P.	М.		M.	Equall P.	M.	lingal . 18
_		31	13871553	I	14196905	31	14523470
1	13547374	2	82379	2	14207772	2	34377
2	68950	3.	93206	3	18639	3	45285
3 4		4	13904035	4	29507	4	56194
4	79740		14865	5	40377	35	67105
5	90531	35	25696	6	51248	6	78017
6	13601323			7	62121	7	88931
78	12117	7 8	36529	8	72995	7 8	99846
	22912	9	47363 58198	9	81870	9	14610762
9	33708	-		-		40	21680
0	44506	10	69035	10	94747	T	32599
1	55305	I	79873		14305625	2	43520
2	66105	2	90712	2			54442
3	76906	3	14001552	3	27385	3	65365
34	87709	4	12394		38267	4	76290
5	98513	45	23237	15	49150	45	
6	13709318	6	34081	6	6003.5	6	87216
	20125	17	44927	8	70921	8	98144
78	30933	8	55774			1	14709073
9	41742	9	66622	9	92697	9	20003
0	52552	50	77472	B 1 276	14403587	50	30935
1	63364		88323		14479	I	41868
2	The state of the s		99175	•	25372	2	52803
630	74177	100	141 10029		36266	3	63739
3 4	84991 95807	4	20884	4	47162	4	74676
						55	8561
5	13806624		31740 42598	3 6	VO VA		96555
6	17442	STATE OF THE PARTY	52450	- L 500	2279857		
	28262		53457		90758	7 8	1844
8	39083	8			1-12-11		
9	49905	9	75179 86042			60	

,44

_	Degrees.	>	N M	M.	Equall P.	M.	
1.	Equall P.	M.		-	The second secon	31	15842504
1	14851277	31	15180362	2	21795	2	53586
2	62226	2	91354		32833	3	64669
3	73176	3	15202347	3		4	75754
4	84128	4	13342	4	43872	5	86840
5	95081	35	24338	5	54913	6	97928
6	14906035	6	35326	-		7	15909018
78	16991	7	46335	7	76999	8	20109
8	27948	8	57336	9	99094	9	31202
9	38907		68338	_		-	42296
10	49867			I	15610139	40	53392
1	60829		90347	1000		2	64489
4	71792		15301354	2	32240	-	
3	82756		3 12362	3	43293	3	
4	93722	4	23372	4	54347	1 4	
1.5	15004689	45	34383	172	65403		
6	15658	6		6	76460	1 2 3	
			56409	8	87519	3	
78		0		-	98579		
9	48573	9	78441	9		50	
20	59547		89459	20	20704	-	
1	70523		15400479	1	31769		-
-2	Ca 81500	02		2			1 111
3	92479	7 3	168 22523	1	53304		ALL WE A
4			33547	4		4 .	200
25	1 to	1 55	44573	5	7604		
16	1	1 6	5 55600	6	Fig. 1		2001
17	3640	2 9	3 66629	7	9819		3113
-8		5 8	77659	8	1580926	55" L	4325
39	1 1/2		88591	19		5 !	5338
26	6937	2 60		130	31422	, 60	6450

26.	Degrees.		işliçene	12	7.Degrees.		a Degree
М.	Equall P.	M.		M.		[M.	Heigh 1
1	16175636	31	16510191	1	16846206	31	17183720
3	86765	2	21368	2	57432	2.	94997
3	97895	3	32546	3	68660	3	17206275
4	16209027	4	43726	4	79839	4	17555
5	20160	5	54908	5	91120	5	28837
6	31295	6	66091	6	16902353	6	40121
78	42432	7	77276	7	13587	7	5 1406
	53570	8	88463	8	24823	8	62693
9	64710	9	99651	9	36061	9	73982
10	75851	40	166 10841	10	47300	40	85272
I	86994	I	22032	1	58541	1	96564
2	98139	2	33225	2	69784	2	17307858
3	16309285	3	44420	3	81029	3	19154
4	20433	4	55616	4	92275	4	30451
5	31582	5	66814	5	17003523	5	41750
6	42733	6	78014	6	14773	6	53051
8	53886	7	89215	7	26024	7	64354
_	65040	8	16700418	8	37277	8	75658
9	76196	9	11623	9	48532	9	86964
20	87353		22829	130	59788	50	98272
1	98512			1	71046	1	17409581
2	16409673	2	45247	102	82306	13	30892
3	20835	3	4	13	93567	3	re 32205
4	31999			4	17104830	4	43520
5	43164		000		16095		54836
6	54331	SHARE BUILDING			27362	6	66154
7	65500				38630		77474
8	76670	-			49900	8	88796
9		E STATE OF	1.00	1 7 6	61172	9	17500119
30	99016	9 1 10 Web		130		2015	11444

M.	Equal P.	M.	Man E goall	M.	Equal P.	M.	A. Equal
1	17522771	31	17863401	1	18205652	31	18549564
2	34100	2	74783	2	17089	2	61057
3	45430	3	86167	3	28528	3	01 72552
4	56762	4	97553	84	39968	4	es 84049
5	68096	15	17908940	5	51410	5	9554
6	79432	6	20329	6	62854	6	18607048
3	90769	7	31720	7	74300	7	18550
	17602108	8	43113		Es 85748	8	30052
9	13449	19	₹ 54508	9	27198	0	
10	24792	40	65904	10	18308650	40	5306
1	36137	CI.	77302	34	20103	& T	6457
2	47483	2	88702	13	31558	-7	76090
3	58831	3	18000104	13	18 430 E5	1.3	87604
4	70181	4	84 11508	4	54474	4	14 99120
5	815.33	5	22914	5	65935	5	187 1063
6	92886	6	34321	6	77398	6	2215
7	17704241	78	45730	8	88 863	17	3367
8	15598	38	57141	- water	18400329	8	19 4520
9	26957	9	68554	9	11797	89	1019672
0	38318	50	79969	20	23267	50	6825
1	49680	1	91386	3I	34739	1	7978
3	61044	20	18102804	3	46213	:3	S 9131
3	10172410	3	14224	3	57689	3	1880284
4	83778	4	25646	1	69167	4	10 1438
5	95147	-5	37070	5	1 80647	85	2591
0	17806518	16	48496	6	92129	-6	3745
7	64 178g1	7	59924	7	18503612	9	4899
8	Cò 29266	18	7071353	8	15097	0	7018654
9	40643	9	82784	19	26584	9	er 7208
10	62021	160	94217	130	38073	60	S 8363

30.D	egrees.	.2.	29.Degree	31.	Degree.	.89	28.Degre
4.1 E	quall P	M.	M. Equall	-	Equall Pa		
-	895182	21	19242545	lk.	1959 1698	34	and the second s
100	906732	2	54154	2	19603368		54423
3 2	18284	3	85 65765	73	38 15040] ा	66157
Ada	29838	84	292 77378	84	72 26714	AND REPORTS	3 77893
5	41394	The second second	88993	5.	38390		89631
6	52952	6	19300610	6	50068		20001371
7	64512	7	12229	7	6174		13113
810	76074	8	8 23850	100	EA 7343		24858
911	87.698	100	35473	2	851 E		1 36605
0	99204	40	47098	10	96800	40	48354
Control of the Control	010772		58735	1	1970848	71	60105
200	22342	83	12 70354	13	88 3017	Colone Contract Contr	71858
3	33914	73	81985	3			83613
4	45488		93618	4	11 4356		95370
5	-57064	135	19405253	5	5526		20107129
6	68642	6	16890	6	6696		18890
7	80322		38 38529	.8	7866		30654
8 7.	91804	68	00140170	-	9036	_	42420
9 19	103188	9	51884	9		1	
0	14974	150	63460	20	1377	7 50	65958
1	26562	OI	75108		2548	and the second	77730
3:11	38152	€3	86758		150.3719	2 13	8950
3	349744	63	98410		14891		20201280
494	61338	74	19510064	l ide	6062	5 4	13058
500	72933	5	21720		7234		24839
6	84530		E 33378	6	8406	1 6	36621
293	96 29	57	150741938	12	21 9578	3 17	4043
8 4	9207730	8-1	56700	1 -8	1990750	7 8	6019
2087	19303	19	6836	19	1933	3 9	7198
10	3093	160	Jon 80039	130	1 3096	1 60	br 83774

32	.Degrees.	•(5.Degrees	13	3.Degrees.		4 Degrees
M.	Equall P.	JM.	Brespiller	M.	Equall P.	M.	Histopa .
1	10195567	31	20650376	1	21007164	31	1136598
3	20307363	2	62237	2	00019092	2	77979
3'	19161	33	74100	3	14 13 1023	3	89977
4	30961	4	85965	4	42954	4	21401978
5	42763	35	97832	5	54888	35	13981
6	54567	6	20709702	6	66825	6	25988
78	66373	7	21574	7	78764	7	37994
8	00078181	8	33448	8	90705	8	50004
9	89992	9:	45324	9	21102648	9-	62016
0	20401805	40	57202	10	14594	40	74031
1	13620	I	69083	1	26542		86048
3	25437	2	80966	2	38492	2	9806
3	37256	3	92841	3	50445	3	21510089
4	49077		20804738	4	62400		0.8211
5	60901	45	16628	15	74357	45	34139
6	72727	6	28520	6	86316	6	10.4616
7	84555	7	40414	7	98278	12	20258199
8	8 196385	8	0 32310	8	21210242	8	70232
9	20508217	19	64208	9	32208	9	82268
01	20052	50		20	0034177	1 /	A STATE OF THE PARTY OF THE PAR
I	31889	1	6 88012	1	46148		94306 11006346
2	43728	2	1: 99917	2	\$7.5812E	2	
3	25055569		20911824	3	70096	3	70818389
4	67413	4	23734	4	82074	21	00030434
5	79257	55		-		-71	42482
6	20116305	16	11 47560			55	17154532
7	20602955	7	159476	1	24306036	1	20266584
8	14807	8		3		8	11.78639
9	26661	9	0 83316	8	7830008	1	90696
6	00 38517	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	295239	9	1997 1997 1997	9	14817

E 2

4. Degrees.	33.Degrees.	35. Degrees.	2.Degrees.
A. Equall P.	M. Bouall J.M.	M. Equall P.	M. 9 Heapel 1.1
1 21726881	31 22089913	1 224551132	11 33835591
21977 8947	1 111 E020 1	X 55 67344	4 34879
316 85 1016		301479519	3410147169
4 63087			4 00 59463
75161	0.0.	5 22503996	5 71758
8 2 87237		6 16218	84055
7 2 99315	1 = 0 = 0 = 4 = 4	1 - 0	7- 96357
8 21811396	1101	1 01	8 21908660
9 23479	1 -1 0-0-	9 52900	9 20966
0 35564		100	40 33274
E-0847652			45582
1.08859741	2 48 23568	20ho 89604	\$ 4:57899
	The property of the last of th	0 -	3 157 702 15
			4 82534
\$ 96017	11-1 /		5 94855
6 21908127		0.40	6:23007179
	1 0 0	7110150828	712+819505
	TI CL . AND AND		8 2031834
	0-1-		9 . 44166
9 05564444		01-	150 056500
DA 2008	B 1033144	I otherda	1 81 688 37
		2 02712114	8: 7:481176
28 8 80776		I a la manda	Hadinardo
3 :0 9289			4 23 10 5863
4 22005011	6 6	48917	5 1018210
\$17154512	\$ 101900		
69 2002925	7 2240630		7 05042012
8 5351	0	85742	
8 53511	8 0 18507	9 98023	9 67635
6564		30 12810306	60 79985
30 4 4 77777	\$ 4291	Pateran	

_	Degrees.	M.	o Degrees			M.	Al Convill
М.	Equall P.	-	r. M. C. M. C. C. A.	M.	Equall P.	-	
I	23192348	31	23564459	I	23938983	31	24315979
2	23204713	2	76904	2	\$1509	2	28589
3	17081	13	89352	3	64038	3	41202
4	29452	4	23601802	4	76570	4	53817
5	41825	35	14255	5	89105	35	66439
6	54201	6	26711	6	24001642	6	79350
7	66580	78	39169	7.	14182	78	91680
8	78961	8	00 31630	8	26725	8	24404307
9	91345	9	64094	9	39271	9	1 16937
0	23303731	10	76560	10	51819	40	29569
1	79716120	1	89029	1	64370	1	42204
1	7528512	2	23701501	2	76924	2	54842
3	40906	3	1-13976	3	1 89481	3	6748
4	53703	4	26453	4	24102041	4	8012
5	65703	45	- 38933	15	14603	45	92774
6	78105	6	61416	6	27168	6	24505424
78	90510	1	63901	A CONTRACTOR	39736	7	1807
8	23402918	8	76389	78	52307	8	30731
9		9	¥838o	9	64880	9	43389
0	15328	50	23801374	30	77+56	50	56050
ì	27741	I	13870	1	90235	30	68714
-		-	Carlotte Contract Con	and it		-	8138
30	1	2	26369	1 1	24202617	1	9405
3	64996	3	\$8871	3	27789	5	2460672
4	77419	4	51375	4	10 Same	4	
5	89845	55.	63882	25	40379	55	1939
6	23502374	6	76392	6	18 32972	6	32076
7	68614706	7	18.88905	7	C016.5268	2	44757
8	27140	8	23901420	8	78167	8	5744
9	39577	9	13938	9	90768	9	70128
0	1 52017	60	26459	30	24303372	60	82818

-	Degrees.		7.Degrees				6.Degree
1.		M.	1161-12	M.	Equall P.	<u>M.</u>	40060
1	95511	31	77640	I	62435	31	49960
	24708206	2	90423:	2	75308	2	75894
3	20904	3	25103209	3	88184	3	
4	33605	4	15998		25501063	4	88866
5	46309	35	28790	5	13945	35	25901841
6	59016	6	4:1585	6	26830	6	14819
7 8	71726	7	54383	8	39718	17	27800
S 1%	84439	8	67184		52609	8	40784
9	97155	9	79988	9	65503	9	53771
	24809874	40	92795	IO	78401	40	66761
1	22596	I	25205605	1	_ 91302	1	79755
2	35320	2	18418	2	25604206	12	92752
3	48047	3	31234	3	17113	3	26005752
4	60777	14	44053	4	30033	14	18755
15	73510	45	56875	15	42936	45	31761
6	86246	6	69700	6		6	44770
7	98985		82528	8	68771	17	57782
8	24911727	8	95359	8	81693	8	70798
9	24472	9	25308193	9	94618	9	83817
20	37220	50	21030	20	25707546	50	96839
1	49971	1	33870	1	20477	1	26109864
2	62725	12	All I was a second	A STREET, SALES	334TE	2	75 22892
3	75482	3			46348	3	35923
4	88242					14	48958
25	25001005	155	8:260	25	73333	55	61998
6		ALC: NO PERSON		6		6	75037
7		3 7	25410973	7	98130	7	8808
8							26201128
9		3 9	36698	9	24039	9	14178
130	6486	5 60	49565	30		60	27232

-	Degrees.	3/			Degrees.	M.	
M.		M.		M.	Equall P.	-	
I.	40289	31	33488	1	29631	31	28793
2.	53349	, 2	45645	2	42887	2	42151
3.	66412	3	59805	3	56-1147	3	55513
4	79478	4	72968	4	69410	4	68878
5	92548	35	86135	5	82676	35	82247
6	26305621	6	99305	6	95946	6	95619
7.	18697	78	26712478	7	27109219	7	27508995
7.8	31776	8	25655	8	22496	8	22374
9	44858	9	38835	9.	35776	9,	35756
D	57944	ct.	52018	10	49059	40	49142
1	71033	ï	65204	1	62346	L	62531
2	84,1:25	2	78394	2	75636	2.	75924
3	97220	3	91587	3	88929	37	89320
4	26410318	41	26804783	4	27202226	4	27602710
15	23420	45	17983	15	15526	45	16123
6	36525	6	31136	6.	28830	6.	29530
	49633		44392		42137	73	42940
8	62744	8	57602	7.	55447	8	56354
9	75859	9.	70815	9	68761	9:	69771
20	88977	50	84031	20	82078	50°	83192
I	26502098	1	97251	1	95399	1	96610
3	15222	2	26910474	2	27308723	2	27710044
3	28350	3	23700	3	22050	32	23475
4	41481	4	36930	4		4	36916
芳	54615	55	50163	25	48715	5-5	50348
6	67752	16	62200	6		6	63790
7	80893	1.10	63399	1.0	75394	A. A.	2 77335
8	7	3	89882	8	88739	3	90684
9	94037		17002128	9	27402087	9	27804136
30	20334	60	17003128	30	15438	60	17592

42.	Degrees.	3.7	41 Degre	4	3.Degrees.		40.Degree
M.	Equall P.	M.	Lund M	M.	Equall P.	M.	Nupt W
1	27831051	31	36486	1	45179	31	57215
2	44514	2	50056	2	58859	2	71008
3	57980	3	63630	3	72543	3	84805
3 4	71450	4	77207	4	86231	4	98606
5	84923	35	90788	5	99922	35	29112411
	98400	6	28304373	6	28713617	6	26219
78	27911881	8	17961	7	27316	78	40031
1000	25365	1	31553	8	41019		53847
9	38853	9	45149	9	54725	9	67667
10	52344	40	58748	10	68435	40	81491
1	65839	I	72351	1	82149	I	95319
2	79337	2	85958	2	95867	2	29209150
3	92839	3	99568	3	28809588	3	22985
A	10000/000		28413182	4	23313	4	36824
15	19853	45	26799	15	37042	45	50667
6	33366	6	40420	6	50775	6	64514
8	46882	7	54045	7	64511	7 8.	78365
8	60402	8	67673	7	78251	8.	92220
9		19	81305	9	91995	9	29306078
20	87452	50	94941	20	28905743	50	19940
1	28100983	1	28508581	1	19494	1	33806
12			22224	2	33249	2	47676
3		1000	35871	3	47008	3	61550
4	41596			4	60771	4	75428
25	1		63176	25	74537	55	89310
6	68689		76834	6	88307	6	29403196
7	82241		90496	1 11 4		7	17085
8	95797			3	15859	8	30978
19	1	9	17830		29641	19	44875
130	22919	160		72 90		60	58776

2.2.

44.Degree	s.	.7.Degree	4	5.Degrees.	6.Degrees.
M. Equall	P. /M.	t. i L pullet	M.	Equall P.	Mallengel
I 726	31 31	91667	I	14363	31 40567
2 865	90 2	29905695	2	128413	2 54843
3 2950050	3 3	0519727	3	\$\$42567	36 0069121
4 100144	20 4	10833763	4	8156725	40 : 83405
5 283	41 35	47802	5	70887	35 97693
6 422	1	61847	6	85053	6 308 11985
8 701	STATE OF THE PARTY	80:75895	7	1099224	7 26281
	STATE OF THE PARTY	89947	8	394+3329	
9 840	STATE OF THE PARTY OF	30004009	90	11527578	
10 980		1 8063	10	41761	40 69195
1 296119		332127	I	55948	1 83509
2 258		46195	3	70139	2 20097827
3 2 398	17 3	00 160267	34	10784334	3 309 12 149
15 6776		8 8 7 4 3 4 3	.3	0098534	45 40805
	THE RESIDENCE OF	88423	15	30512738	The same of the sa
	SERVICE LA CONTRACTOR	30102507	6	26946	1 4 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
9569	STATE OF THE PARTY	30688	8	A 2755374	7 0 10 69479 8 10 183822
	-	44785	9	69594	98170
20 3762		58885	20	83819	50 31012522
1 516		72990	I	98048	1 26878
2 6555	-	87099	2	20612281	2 41238
3 795		30201212	3	26518	3 855603
4 935		51815329	4	40759	4 69972
25 298075		29450	25	55005	55 84345
6 215	DECEMBER AND ADDRESS OF THE PARTY OF THE PAR	43575	6	69255	6 98723
7 355		67257704	78	83509	7-31 1 13105
8 496		71837	8,	-8.97767	8 11 27491
9 636	23 9	85975	9	307 12029	9 41882
30 776		30300117	30	26296	60 -56277

F

M. Equal Pi	M.	M. Equall)	M.	Equall P.	M	El Equal 13
1 31170676	1	31604695	T	42728	31	84882
2 85080		19231	2	57399	2	99693
301 60 99488	3	2 5+33778	3	2173075	3	325 14508
4 31213900	4	₹0248316	4	286756	4	+ 29328
5 28317	35	62863		2101441	5	44153
6 42738	6	77419	5	1016131	6	58983
7 57164	7	20091977	7	30825	7	73817
	8	13		45524	8	88656
9 86028	2	21107		660128	-	33603500
10 3 1300467	40	35679	10	74936	40	18349
14910	1	50255		89649	I	33202
29357		10.64836	The second of	2104366	2	48060
3412143809	3	79431		880610	3	62923
4 58265	13	1009401A	4	33815	4	77791
72736	1111	31808605	5.1	48546		92663
87191	6	23204	6	63282		32707540
7 31401660	1 %	37807	88	78013	7	100059432
8:8816134	112	232415	-	92768	-	37109
911 30612	9	67027	20	3307518	50	-52200
45095		81644	id	22273	7	67096 81997
1 59582	-	96265		37031	-	
74073	3	31910891	2	51796	3	22811814
3902788569	1 3	25521	3	81338	4	26729
4 32503069	1.4	40156	4		-	
17574		54795	5	96116		41649
32083	6	84088	2	25686	7	71504
7 46507	1-3	MANAGER OF RANCE PRINCIPLES	8	No. Of Street,	1	86419
44 01115	0	98741	1	40478	0	31901378
9 75637	160	28061	20	70076		The second of the second of the second

48	Degrees.	¥.	gr.Degree	4	.9.Degrees.	-31	30 Degree
M.	Equall P.	M.	Jeans A	M.	Equall P.	M,	LAND COM
1	31271	31	8201 I	1	37224	31	97033
3	46225	2		2		4.5	34312441
3	61184	3	33412218	3	50 67783	3	27854
4	76148	4	27329	4		4	43272
5	91116	35	42445	5	98263	35	38699
6	33006089	6	57566	6	33913536	6	
78	21067	8	72692	7	28814	07	89558
8	36050	8	87823	8	44097	9	34404997
9	51038	9	33502959	9	59385	9	20442
10	66031	40	18100	10	74678	40	
1	81029	1	33246	1	89976	ı	51347
3	96032	2	48397	2	34005280	3	66807
3	33111039	3	63553	3	20589	3	82273
4	2605 I	4	78714	4	35903	4	97744
15	41068	45	93880	25	51222	45	34513220
6	56090	6	33609051	6	66546	.6	28702
3	74147	8	24237	7	81875	17	44189
8	86149	8	39408	8	97210	8	3 59681
9	33201186	9	54594	9	34112550	9	75179
20	16228	50	69785	30	27895	50	90682
1	34275	1	84981	1	43245	1	34606190
2	46327	2	33700182	2	58600	3	8 2 1704
3	61383	3	15388	3	73961	3	37223
4	76444	4	30600	4	89327	4	52747
25	91510	55	45817	25	34204698	55	68277
6	33306581	6	61039	6	10074	6	83812
7	21657	7	76266	7	35458	7	68a 99353
8	36738	18	91498	8	40842	8	34714899
3	51824	9	33806735	9	66234	9	30450
30	66915	160	21977	30	81631	60	46007

F 2

50	Degrees.	.cos	49.Degr	51	.Degrees.	:3:	8.Degree
M.	Equal P.	M.,	Inuis . M	М.	Equall P.	M.	Henpal 1 A
a	61569	31	30968	1	35705369	3.5	84914
19	5 297 197	State of the last	46700	3:	17 21270	25	36200989
3	TE 92780	3	70 62438	3:	37177	3	17070
4	34808288	4	78181	4	53090	4	33157
5	23872	35	93930	5	69008	35	49250
6	39461	6	35309684	6	84932	6	65349
7	55056	7	85 25444	78	35800862	V	81458
8	190636		41209	8	16798	8	97569
9	86261	9	56980	9	32739	9	36313681
10	34901872	40	72757	IO	48686	40	2980
I	17488		88539	I	64639	02	45931
2			35404327	2	80598	12	
3	48737	03	0 20I 20	3	96562	3	117820
4	64370	4	35919	4	35912532	4	94351
15	80008	45	51724	15	28508	45	3641050
:6	95652	6	67534	6	44495	6	26661
7	35011301	7	813 83350		60477		1174282
8	26956	8	1 99172	8	76470	7.	1 6 5899
9	42616	9	35514999	9	92469	9	75171
10	58282	50	30832	20	36008474	50	9135
(4)	130 73953	17	46671	1	24485	1	36507541
2	89630	2	8 62515	2	10040502	2	23735
3		13	783 65	3	56524	3	3993
4	21000	4	94221	4	72552	4	56141
-			35610082	25	88586	55	7235
55	36693 52392	55	01 25949	6	36104626	6	8857
	00 68096	7	475 41822	7	20672	7	36604795
78		8	The second secon	8	36724	8	2102
	83806	11 10 61	57700	1	52782	9	37261
9	99521	9	73584	30	68845	60	
30	35215242	60	89474	130	0004)		75700

Ac . . .

52.	Degrees.		conggio.	53	Degrees.		was Ali
M.	Equall P.	M.	i wind	M.	Equall P.	M.	delegi.
1	69751	31	60041	I	55944	31	57629
2	86005	2	76480	2	72573	2	7445
3	36702265	3	92925	3	89208	3	9128
4	18531	4	37209376	4	37705850	4	38208121
5	34804	35	25834	5	22498	5	24966
6	51083	6	42298	6	39153	6	41817
78	67368	7	58768	7	55814	7	58675
	83659	8	75244	8	72481	8	75539
910	99956	9	91727	9	89155	9	92410
10	36816259	40	37308216	10	37805835	40	38309288
I	32568	I	24711	I	22522	1	26172
2	48883	2	41212	2	39215	2	43063
3	65204	3	57720	3	55915	3	59961
4	81531	4	74234	4	72621	4	76865
25	97865	45	90754	5	89334	5	93776
6	36914205	6	37407281	6	37906053	6	38410694
7	0 30551	8	23814	78	22779	7	27619
8	46903	8	40353	-	39511	8	44550
9	63261	9	56899	9	56250	9	61488
0	79625	50	73451	20	72995	50	78433
1	95905	L	90009	1	89747	1	95384
2	37012372	2	37506574	2	38006506	2	38512342
3	28755	3	23145	3	23271	3	29307
4	45144	4	39723	4	40043	4	46279
15	61539	55	56307	5	56821	5	63258
6	77940	6	72897	6	73606	6	80243
7	94348	7	89494	7	90397	7	01197235
8	37110762	8	37606097	18	38107195	8	386 14234
9	27182	9	22706	9	24000	9	31240
30.	43608	160	39322	30	40811		48253

F 3

54	Degrees.			55	Degrees.		32 [50] .4
M.	Equall P.	M.	1	M.	Equall P.	M.	
1	65272	31	79055	1	99169	31	2581
2	82298	1 2	96289	2	39716617	2	4348
3	99331	3	39213530	3	34073	3	61155
4	38716371	4	30778	4	51536	4	7884
5	33418	135	48033	5	69006	35	96530
.6	50472	6	65295	6	86484	6	40314236
7	67532	7 8	82564	18	39803969	7 8	3194
8	84599	1 B 10 7 7	99840	- 10 CONTRACT	21461	8	4965
9	38801673	9	39317124	9	38960	9	67380
10	18754	40	34415	10	56467	40	85110
	3 5842	I	51713	1	73981	I	40402847
3	52937	2	69018		91502	13	2059
3	70039	3	86330	3	39909031	3	3834
4	87148	4	39403649	4	26567	4	56104
15	38904263	45	20975	15	44110	45	7387
6	21385	6	30308	6	61661	6	9164
78	38514	7	55648	1.7	79219	7	40509430
-	55650	8	72996	8	96785	8	27220
9	72793	9	90351	9	40014358	9	45018
20	89943	50	39507713	20	31938	50	62824
2	39007100	1	25082	1	49526	1	80637
1000	And the Participant Manager of the	2	42458	2	67121	2	98458
3	41435		59841	13	84724	3	40616287
4	58613	4	77232	4	40102334	14	3412
25	75798	55	94630	25		55	3196
6	92990	6	39612035	6	37576	6	69819
7 8	39110189	The second	29447	7	55208	7	87678
8		8	46867	8	72848	8	40705545
9	44608	9	64294	9	90495	9	23420
30	61828	160	81728	130	40208150	160	4130

10.00

56.	Degrees.		Mark Alley	57	Degrees.		Silling sec	
M.	Equall P.	M.		ME Equal P. M.				
ī	59193	31	99528	ī	47038	31	42401966	
2	77091	2	41317661	2	65415	2	20594	
3	94997	3	35802	3	83800	3	39231	
4	40812910	4	53951	4	41902193	4	57876	
5	30831	35	72103	5	20595	35	76530	
6	48760	6	90173	6	39005	6	95191	
7	66697	7 .8	41408446	7	57423	7	42713863	
8	84641	200	26527	8	75849	8	32542	
9	40902593	9	44817	9	94284	9	51330	
10	20553	10	63015	10	42012727	40	69927	
1	38521	1	81221	1:	31178	1	88632	
2	56497	1	99435	2	49638	2	42607346	
3	74480	3	41517657	13	68106	3.	26068	
4	92471	4	35887	4	86582	4	44799	
LS	41010470	45	54125	15	43105067	45	63539	
6	28477	6	72371	6	23560	6	82287	
7	46492	17	90625	7	42061	7	41701044	
8	64515	18	41608887	8	60571	8	19810	
9	82545	9	27157	9	79089	9	38584	
20	41100583	50	45435	20	97616	50	57367	
1	18629	1	63722	T	42216151	1	76159	
3	STATE OF THE PARTY OF THE PARTY.	2	82017	2	34694	2	94959	
3		3	41700320	3	53246	-3	42813768	
4	72815	-	18631	4	The second secon	4	32586	
25	90893	55	36950		90375	55	51412	
6.	41208979	6	55277	6	42308952	6	The state of the s	
7	27073	1-2	73613	7		1	89091	
8		8	91957	- TE - 10755	THE RIVER IN COLUMN TWO ISSUES OF THE PARTY	8		
9	63285		41810309	9		9	26806	
39	81403	60	28669	130	83346	160	45676	

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